

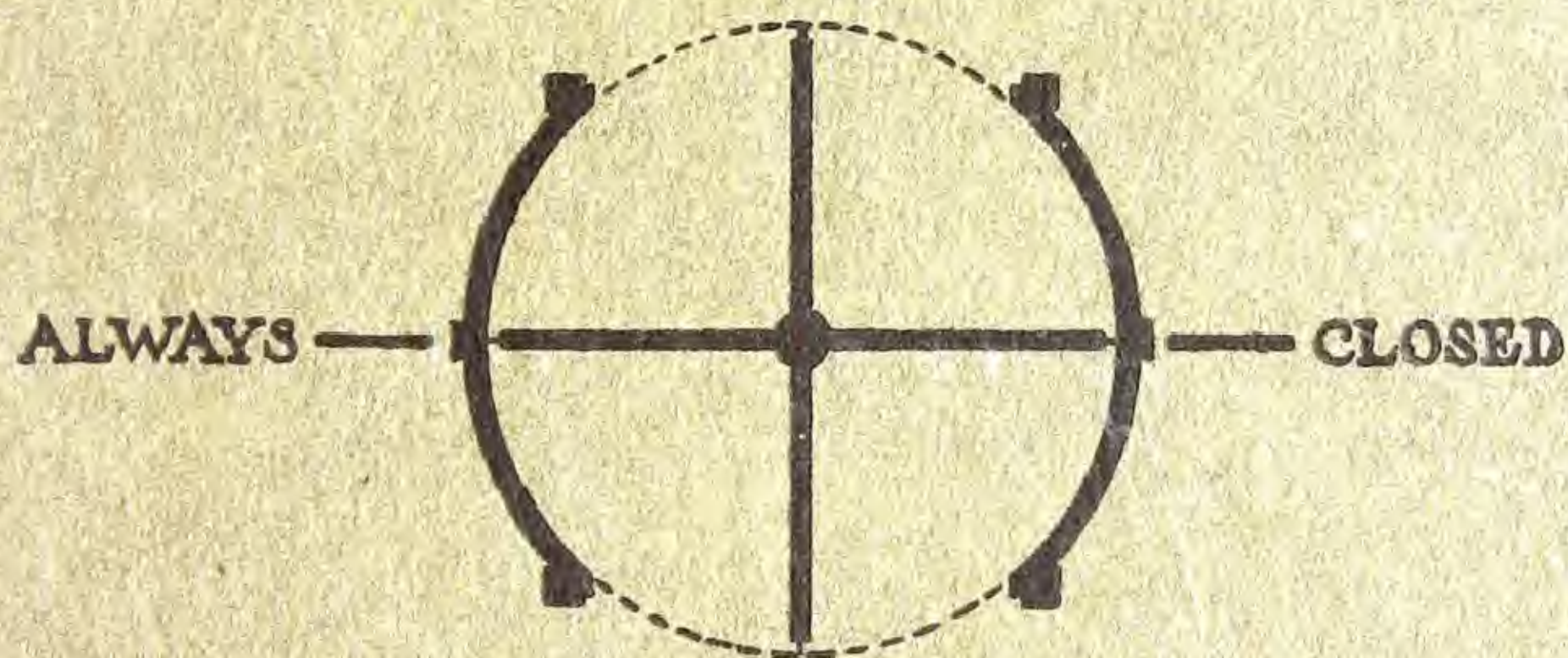
REVOLVING DOORS

G. W. GADEN

SOLE AGENT FOR THE DOMINION

FOR

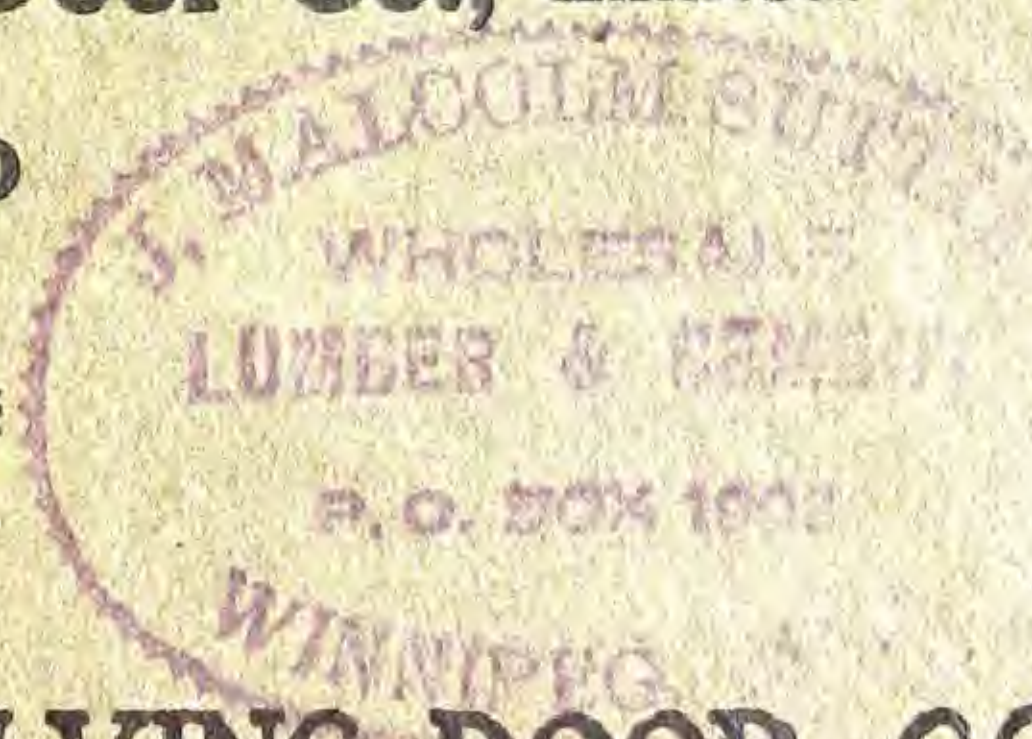
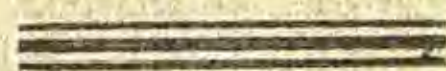
**Van Kannel Panic Proof Doors
Toronto**



AND MANAGER FOR

Canadian Revolving Door Co., Limited.

Toronto



VAN KANNEL REVOLVING DOOR CO.

FULLER BUILDING

BROADWAY AT TWENTY THIRD ST.

NEW YORK

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CCA

GENERAL INFORMATION

Revolving Doors

ALWAYS
CLOSED



STYLES
TYPES
DESIGNS

MANUFACTURED BY

Van Kannel Revolving Door Company

MAIN OFFICES:

FULLER BUILDING, BROADWAY
AT TWENTY-THIRD ST.

NEW YORK

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CCA

LEADING FEATURES

VAN KANNEL REVOLVING DOORS speak volumes as a **MONEY MAKER** for all users.

AT ALL times they **PROTECT HEALTH** by excluding the varying **ELEMENTS** and maintaining an even temperature.

NOTE: **VAN KANNEL REVOLVING DOORS ARE** the **VERY BEST COAL ECONOMIZERS** ever devised.

KNOWLEDGE of above **ESSENTIALS** will prompt all **OWNERS** and **LESSEES** of **BUILDINGS** to insist on the **BEST—VAN KANNEL REVOLVING DOORS.**

ALWAYS CLOSED yet **ALWAYS OPEN**, **VAN KANNEL REVOLVING DOORS** regulate traffic with **GREATER CAPACITY** than any other **DOOR SYSTEM.**

NOISELESS in **ACTION**, **VAN KANNEL REVOLVING DOORS** exclude all noise.

NO other existing type of door equals **VAN KANNEL REVOLVING DOOR** in **CONVENIENCE**, **ADAPTABILITY** and **SAFETY.**

EVERY set of **VAN KANNEL REVOLVING DOORS** is thoroughly constructed in a most workmanlike manner, using only the best of material. They **REVOLVE EASILY**, **COLLAPSE EASILY**, **MOVE** to side of **VESTIBULE EASILY.**

LAST. **VAN KANNEL REVOLVING DOORS** are manufactured in many **TYPES AND STYLES.** They are the most **USEFUL**, greatest **SAVING DEVICE** and greatest **SAFETY DEVICE** of **MODERN BUILDING CONSTRUCTION.**

VAN KANNEL Revolving Door Company

MANUFACTURERS

REVOLVING DOORS

USED IN

DEPARTMENT STORES
PUBLIC BUILDINGS
HOTELS
THEATRES
SCHOOLS
COURT ROOMS
RESTAURANTS
CLUBS
FACTORIES



RESIDENCES
OFFICE BUILDINGS
CHURCHES
COLLEGES
LIBRARIES
COMMITTEE ROOMS
CAFES
LABORATORIES
HOSPITALS

APARTMENT BUILDINGS

EVERY DOOR OPENING REQUIRING TEMPERATURE
OR TRAFFIC REGULATION

**OUR REVOLVING DOORS ARE DIVIDED INTO
THREE GENERAL CLASSES AS FOLLOWS**

The Revolving Storm Door for excluding wind, rain, snow and dust fulfills all the requirements of the ideal door.

The Revolving Air Lock Door, for interior doorways, prevents the circulation of air from room to room, excludes light, sound, heat, odors, dust, etc.

The Revolving Fire Door, for the prevention of fire spreading from room to room, allows free passage of persons, without danger of flame or smoke. A most ideal, safe and valuable exit to fire-escapes, elevators, halls and stairways.

Our Automatic Collapsible Panic-Proof feature may be applied to any type of door.

STYLES



Style A —Wings **cannot** be folded or moved aside. They rest and revolve on lower pivot. Rigid wooden braces for wings.



Style B —Wings **may be folded** and bolted in central position, **but not moved aside**. Rest and revolve on lower pivot. Iron drop-arms used as braces for wings. (Page 32)



Style C —Wings **may be folded and moved aside**. Suspended in overhead trolley above ceiling. Bronze drop-arms used as braces for wings. (Page 8-12)



Style D —Wings **fold from center of rotation**. Used generally in steel or bronze wings. In other respects arranged like style C.



Style E —Indicates **curved glass** placed in curved walls. Metal angle stops for holding glass in walls, leaving flush surface inside.



Style F —Walls **divided into various hinged sections**, giving wider opening when wings are folded and moved aside. (Page 9-15)



Style G1 —**Six-wing Revolving Door**. Greater diameter. Show case in center. Wings folded as shown in dotted lines. Wings flex back automatically when meeting obstruction. Panic Proof. Moves continuously by electric motor. Used in large stores, etc. (Page 24-25)



Style G2 —**Four-wing Store-Door**. No show case. In other respects like G1. (Page 24)



Style H —**Revolving Fire-Door**. Prevents spread of fire and smoke in buildings. Fire-proof construction. (Page 31)



Style J —Automatic Collapsible Revolving Door. A Panic-proof Door, for churches, theatres, etc., all wings fold flat and **outward**, automatically. (Page 15-19)



Style K —“Permanent Wall” Type. Marble, stone or tiling. Ceiling usually of marble. The ideal construction for large buildings. (Page 26-27)



Style L —Factory Door. Wings of cross lapped flooring. Walls strong and solid. Plain designs. Fixtures extra heavy. (Page 33)



Style MB—Three-Wing Revolving Door. Smallest diameter. Walls Stationary. Wings do not fold and move to one side. Used where traffic is light. (Page 21-22)



Style MC—Three-Wing Revolving Door. Smallest diameter. Wings fold in several ways as shown in dotted lines. Used where traffic is light. Walls hinged as in Style F. (Page 21-23)

Remark:—Revolving Doors may combine two or more of above styles, as BE, CE, DF, etc.

DIAGRAMS OF STANDARD REVOLVING DOORS

STYLE C

VARIOUS POSITIONS

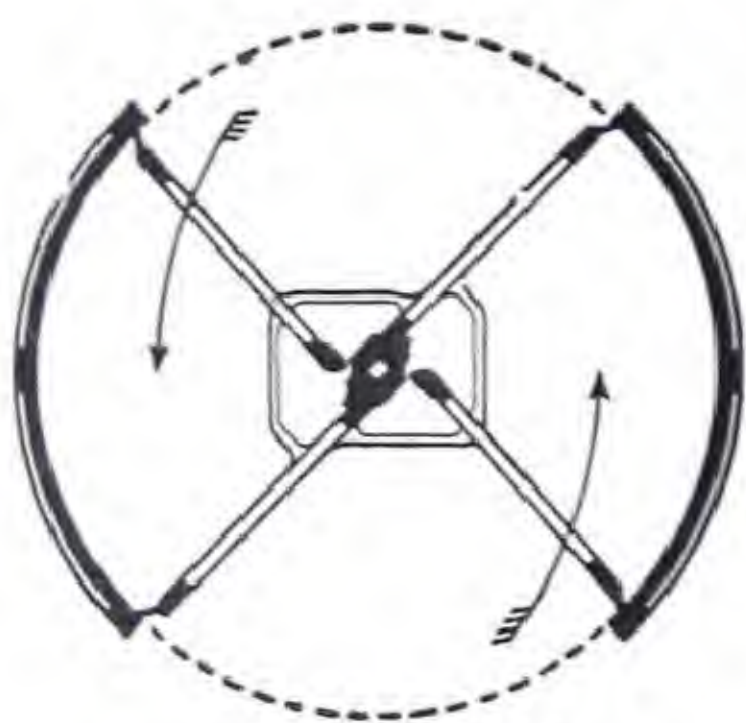


Figure 1

REVOLVING POSITION

The four wings extended, permitting persons to pass in and out, at the same time excluding wind, snow, dust and noise. **"Always Closed."**

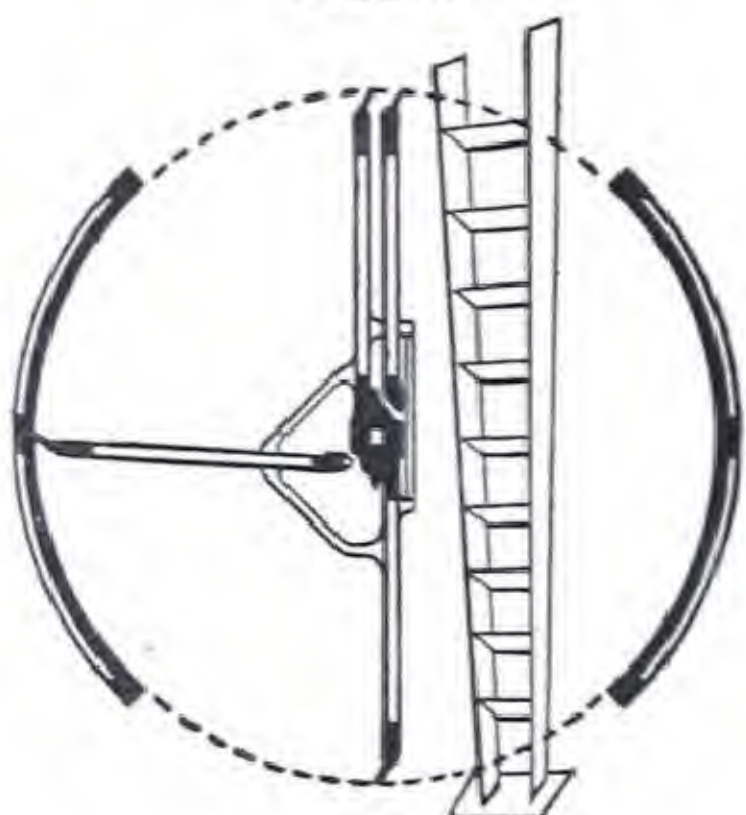


Figure 2

HALF OPEN POSITION

One wing folded back to permit long objects to be passed through. A wing may be opened as quickly as an ordinary hinged door, the hinged drop-arm holding the folded wing back automatically.

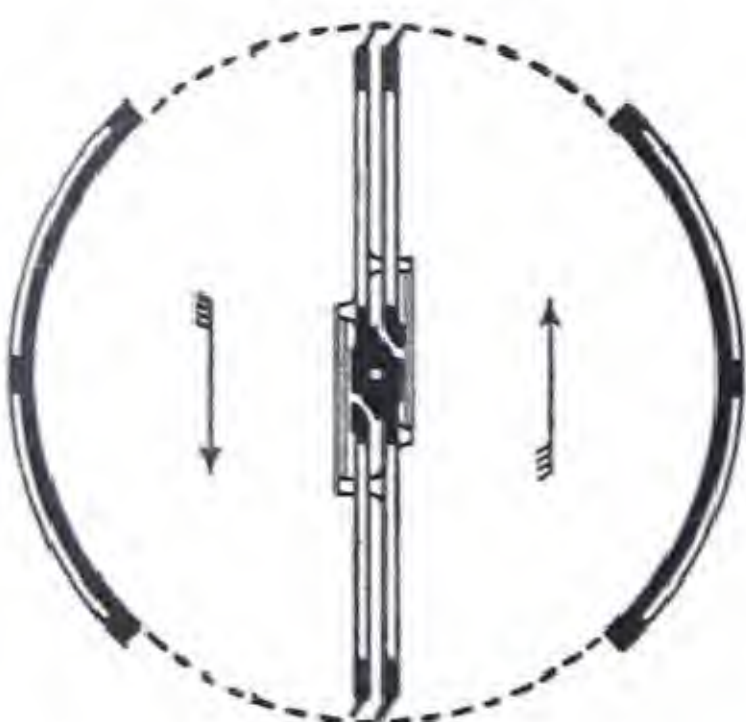


Figure 3

CENTRAL OPEN POSITION

The two hinged wings are folded flat on the two permanent wings and bolted to ceiling, giving two half-width passages separating the ingoing and outgoing passengers.



Figure 4

FULL OPEN POSITION

Wings folded and moved aside. For passing bulky furniture, pianos, etc., or for processions and for full ventilation. No obstruction to the view. May be folded and moved aside by one person in ten seconds.



Figure 5

FULL OPEN POSITION

Same condition as in Figure 4, showing the value of the introduction of flexible, hinged walls. This method permits the greatest width for full open vestibule.



Figure 6

LOCKED POSITION

The four wings folded, placed transversely across the circular vestibule, where they may be securely locked or bolted. Other locking methods are adopted in special cases.



Figure 7

SPECIAL FULL OPEN POSITION

Wings folded and moved aside, permitting the use of swinging fly door for summer use, or when desired.

Remark:—Revolving Doors may combine two or more of above styles, as BE, CE, DF, etc.

STANDARD TYPE, STYLE C, REVOLVING DOOR

GENERAL SPECIFICATION

"The revolving door shown to be of the **Van Kannel Revolving Door Company's** make—standard type of revolving wings, together with circular walls, ceiling and cornice. All glass to be best American plate. Hardware exposed to be of solid bronze or brass."

DETAIL SPECIFICATIONS

WALLS

The interior walls must be cylindrically true and smooth. No beading grooves or other irregularities of these surfaces can be permitted. The curved side walls must extend three-quarters (3-4) of an inch beyond the quarter diagonal line so that the four revolving wings will always be in contact with the walls of the vestibule, when the four wings in their revolving position are placed diagonally in reference to the two openings of the vestibule.

If side walls are to be hinged, they should be so specified.

CEILING

Must be flat and perfectly smooth as specified for inside side walls.

Slot closer in ceiling to be specified if desired.

WINGS

The wings should be as lightly constructed as possible and at the same time afford proper and sufficient strength.

A thickness not exceeding 1 1-4 inches should be specified for doors up to 7 feet 6 inches in diameter and 1 1-2 inches thick if of larger diameters.

Kickplates, handrails, pushplates and hardware: metal as specified, designs and finish as desired and specified.

Wings are to be constructed so that they will fold flat on each other in a straight line and arranged to be moved aside for wide open vestibule when desired.

The revolving wings to be hung from a self-oiling ball bearing carriage located in the ceiling chamber, and said carriage to be so constructed it can be released from its central position, by means of levers controlled by a pivot lifter, by one operation and moved to one side of vestibule.

Each set of revolving wings should have a governing device properly attached to central shaft, to control speed of wings when revolving, thus preventing the wings from spinning.

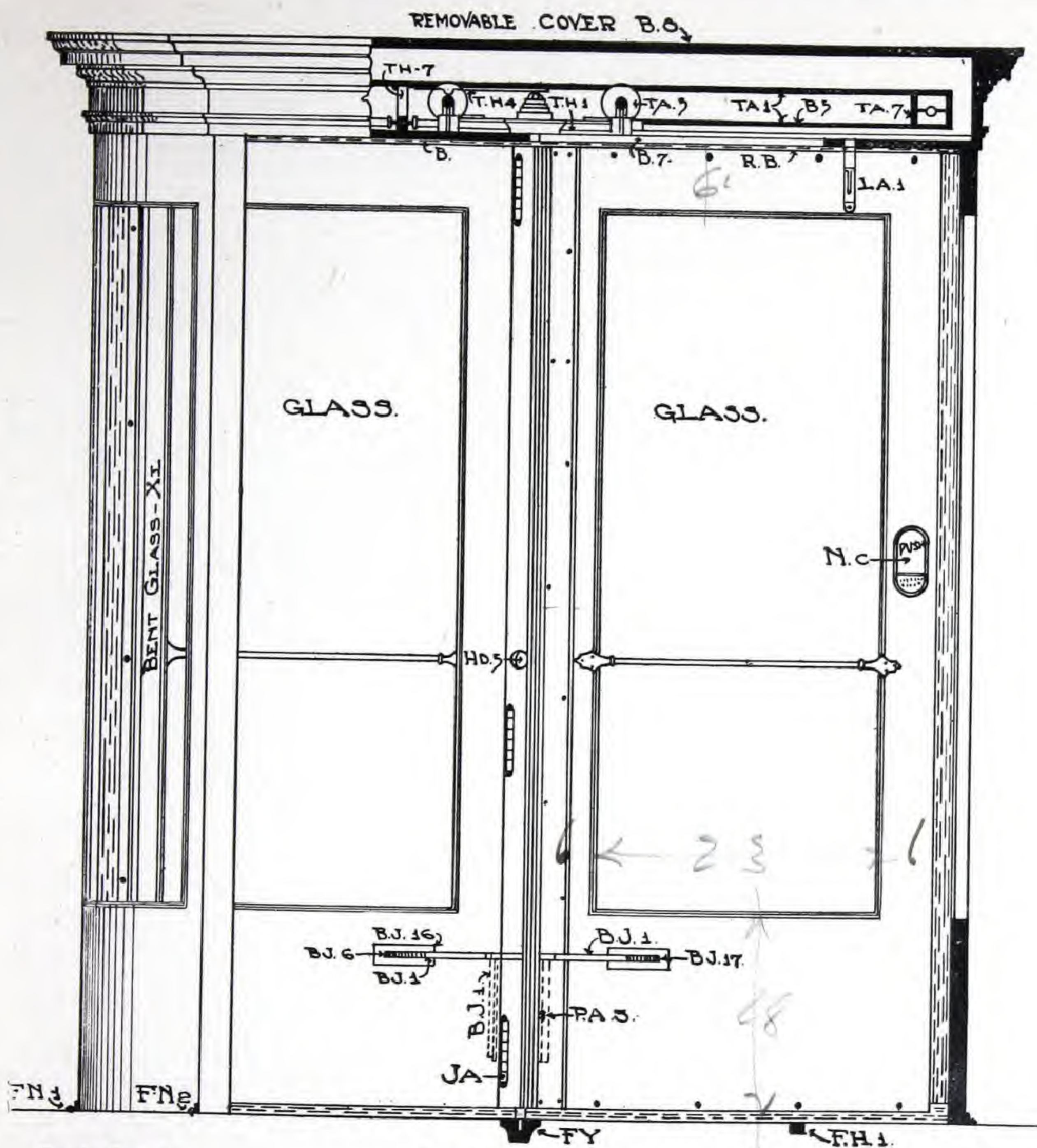
If continuous revolving of the wings is desired, Van Kannel Special Motor Control Device should be specified.

Each wing to be equipped with adjustable weather stripping at outer edge, top and bottom. The stripping at top to be best quality extra heavy felt,—stripping at outer edge to be specially molded rubber, tipped with best quality of heavy felt,—stripping at bottom to be plain flexible rubber. All corners of strips to be properly tacked together.

FINISH

The finish of material, whether wood or metal, should match up with surrounding work.

VAN KANNEL REVOLVING DOOR COMPANY



Scale $\frac{3}{4}"=1$

Sectional Elevation

Fig. 8

OPERATION OF STANDARD STYLE "C" REVOLVING DOOR

As shown in Figs. 8 and 9, the revolving wings are constructed so that the two wings C1 are fastened together at the center to form one complete door across the opening. The two wings C2 are hinged to the wings C1 with hinges marked Ja so that these wings may fold flat against wings C1 as shown on dotted lines marked "Wings folded." The wing C2 is held in its extended position by a drop arm brace, marked "Bj1" that is fastened to wings "C1" with the brackets "Bj2" at which point drop arm "Bj1" is hinged and when the wing "C2" is folded in its folded position, it allows the drop arm to drop as shown in dotted lines in Fig. 8. The drop arm passes through a lock fastened to the wings "C2" and is held in its extended position by a strong catch marked "Bj6" By releasing this catch the wing may be folded in its folded position and the drop arms

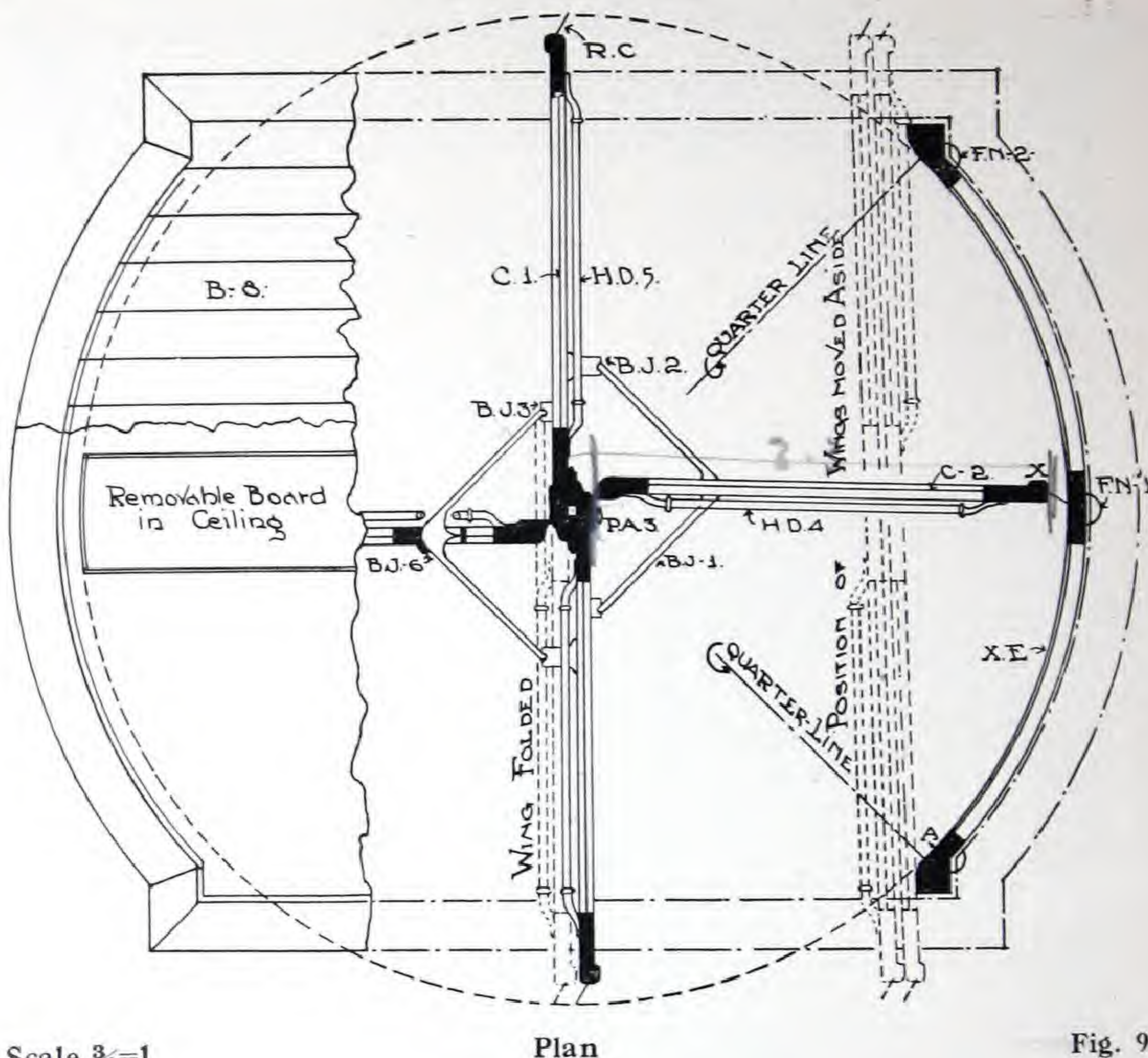


Fig. 9

allowed to hinge down in their drop positions. The entire four wings are hung in the opening and supported with a king bolt that is further supported by a carriage placed in the upper part of the door between the two channel irons marked "Ta1" and so constructed that the carriage can roll to one side when desired, in these channel irons which form tracks. The bearing of the revolving wings is a ball bearing placed in a dust-proof pocket in the carriage, placed in the channel irons and the ball bearings rotate in an oil pocket and do not require oiling.

The entire bearing in the upper part of the door is universal in its action. To hold the revolving wings at the bottom there is a floor socket placed in the floor marked "Fy" Fig. 8 and at the bottom of the revolving wings at the center there is placed a pivot or shaft extending about ten inches up. This shaft is supported in a vertical bearing at the bottom of the revolving wings and so constructed that it may be raised and lowered when desired, by the pivot lifter "Pa3." The pivot is so constructed that when it is pressed into the floor socket "Fy" it connects with a small cross pin in the socket which prevents the pivot from turning and allows the revolving wings to rotate around the pivot. When the pivot lifter "Pa3" is raised it raises the pivot and by the means of an extension rod placed in center of wings it disengages the carriage lock at the top and unlocks same which allows the wings to be moved to one side as shown on dotted line, Fig. 9. This outlines the principles of the style "C" revolving door whereby the wings may be folded and moved to one side, but the mechanical parts required to accomplish this vary in different constructions to meet the requirements of each particular class of door.

SPECIAL FEATURES

SIZE AND CAPACITY OF REVOLVING DOORS

SIZE

The most popular size for a revolving door is 7 feet diameter and 7 feet 6 inches to 8 feet high (inside measurements). Revolving doors are, however, successfully operated from sizes of 5 feet diameter up to 10 feet. Outside design can be any style.

DIAMETER

There is no advantage in making a revolving door more than 7 feet in diameter as nothing is added to the capacity of the door.

The diameter being increased, wings are further apart, thus wasting walking space.

The diameter being increased creates a great tendency for more than one person to enter a single compartment at the same time, therefore impeding the motion of the revolving wings.

Vestibules less than 7 feet to be used where traffic is light.

The smallest diameter we recommend for a four-winged revolving door is 5 feet 10 inches. We have doors of four-winged type as small as 5 feet 4 inches where traffic is extremely light.

Diameter of vestibules from 5 feet to 6 feet should be used for our three-winged type.

A vestibule of 7 feet diameter will accommodate the greatest capacity for traffic, excepting our 10 feet diameter six-wing door with motor device attached.

A Partial List of Some of Our Vestibule Capacity Tests

Bank of Commerce Building, New York City. Diameter, 7 feet.
Start 2:00 P.M. Finish 3:00 P.M. In 961, out 679.

American Tract Society Building, New York City. Diameter, 7 feet.
Start 2:00 P.M. Finish 3:00 P.M. In 533, out 516.

Manhattan Life Building, New York City. Diameter, 6 feet.
Start 3:00 P.M. Finish 4:00 P.M. In 559, out 432.

Commercial Cable Building, Broad St., New York City. Diameter, 7 feet.
Start 2:00 P.M. Finish 3:30 P.M. In 1,520, out 1,521.
Start 2:00 P.M. Finish 3:00 P.M. In 1,018, out 1,034.

A. D. Mathews & Sons, Brooklyn, N. Y. Diameter, 10 feet.
Start 2:00 P.M. Finish 3:00 P.M. In 3,100, out 2,558.

Marshall Field & Co., Wholesale, Chicago, Ill. Diameter, 7 feet.
Start 5:00 P.M. Finish 5:10 P.M. In 57, out 1,075.

Above paragraph will give a very fair estimate of the value of revolving doors, as these records surpass swinging door records. At the same time there was no loss of heat and consequently, money saved in the running expense of the buildings so equipped.

Again, the paragraph on Capacity Tests showed that as the doors or wings were continually travelling in same direction as the traffic, either in or out, there was no stopping, collisions or interferences as the crowds were separated.

POSITION

A revolving door vestibule can be placed in a building in many ways (note illustrations on page 44). The floor must be perfectly level and where there are approaches such as steps on either side of vestibule, the following dimensions should be observed.

On exteriors, where there is one step, distance from nosing of step to the greatest sweep of the revolving wings should be not less than 6 inches. Where there are more steps than one the distance from nosing of step to the greatest sweep of the revolving wing should be not less than 14 inches.

On interiors, where there are steps leading up from the revolving door vestibule floor, the distance between nosing of first step to greatest sweep of revolving wings should not be less than 24 inches.

The wings of a revolving door are so perfectly balanced that little pressure is exerted in passing the vestibule, even in face of driving storms.

FLOORS

Vestibule being circular permits of many conventional designs in marble, mosaics and other floor materials.

SPACE

A revolving door vestibule economizes space and in buildings with large entrance halls the renting space is increased and made available and comfortable for merchandise booths.

DIAGRAMS OF VAN KANNEL AUTOMATIC COLLAPSIBLE, PANIC-PROOF REVOLVING DOOR

STYLE JG



Figure 10

REVOLVING POSITION

The four wings extended, permitting persons to pass in and out at the same time excluding wind, snow, dust and noise. "Always Closed."



Figure 11

CENTRAL OPEN POSITION

Wings folded flat in pairs and locked in position, giving two half-width passages separating traffic.

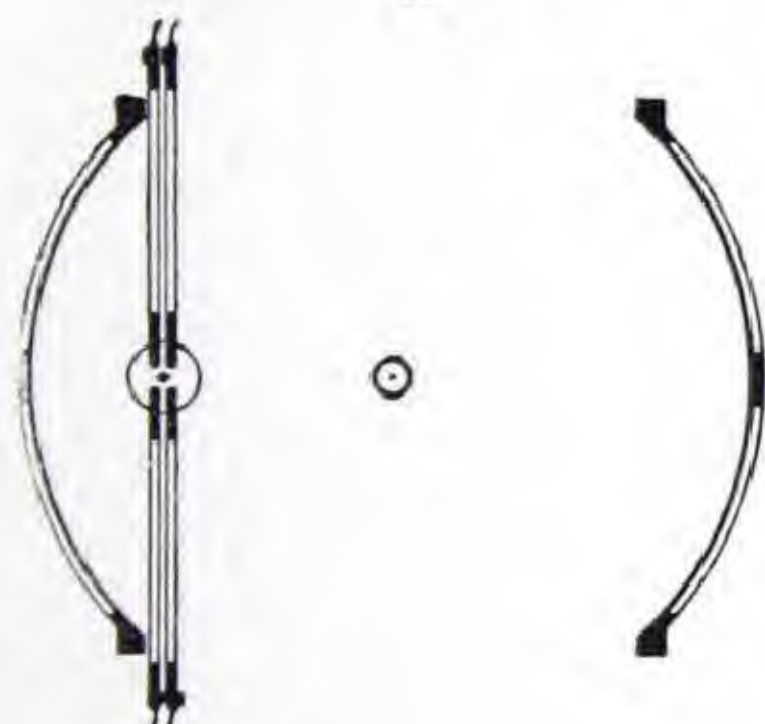


Figure 12

FULL OPEN POSITION

Wings folded and moved aside, for handling bulky objects.

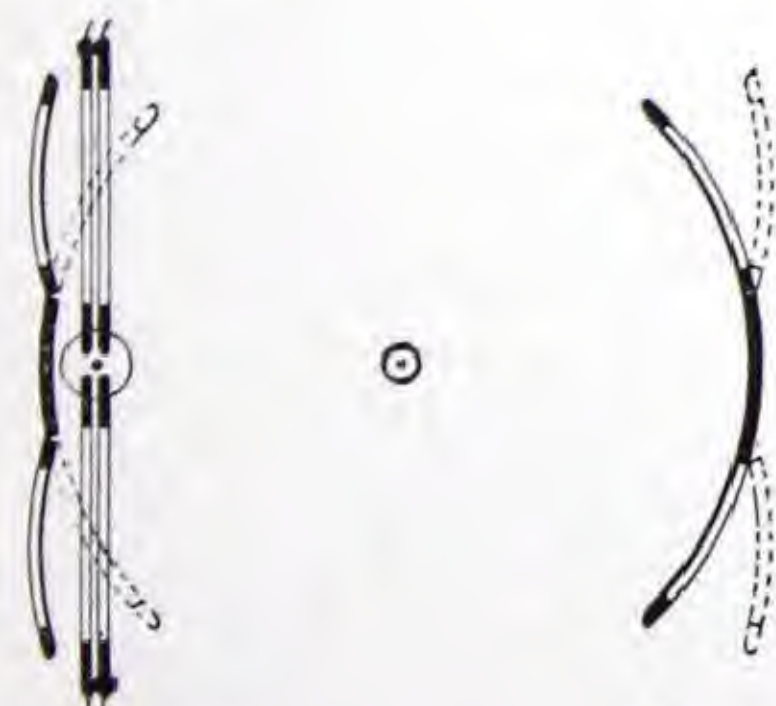


Figure 13

FULL OPEN POSITION

Wings folded and moved aside with hinged walls flexed for added space.



Figure 14

PANIC COLLAPSED POSITION

Wings folded on each other in outward position—result of panic or other reasons. Where flexed walls are used (as Fig. 13) in case of panic the walls flex automatically outward as wings take their collapsed position.

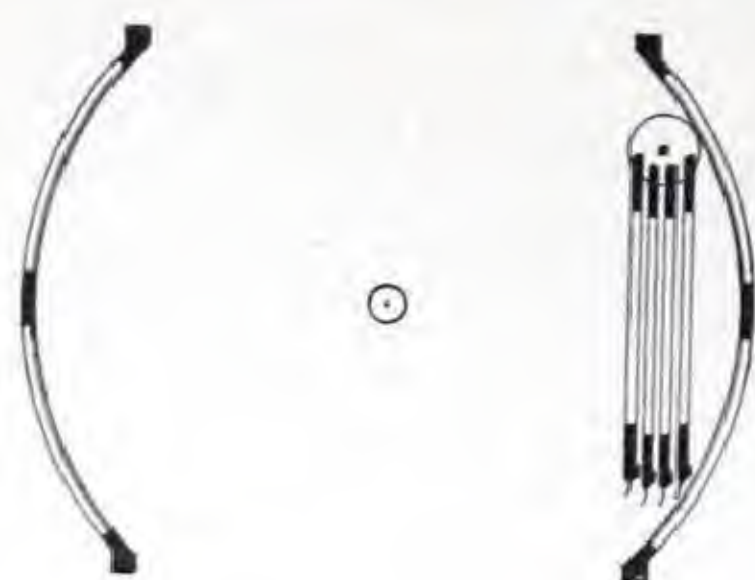


Figure 15

FULL OPEN POSITION

Wings folded on each other and moved to one side.

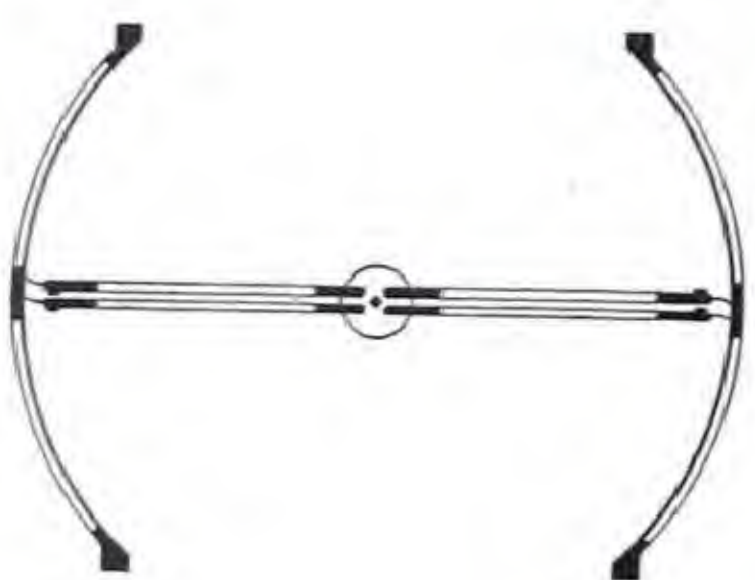


Figure 16

LOCKED POSITION

The four wings folded in pairs and placed across vestibule securely locked or bolted. Lock operated from both sides.

Remark:—Revolving Doors may combine two or more of above styles, as BE, CE, DF, etc.

AUTOMATIC, COLLAPSIBLE, PANIC-PROOF REVOLVING DOOR

STYLE J-C

GENERAL SPECIFICATION

"The revolving door shown to be of the Van Kannel Revolving Door Company's make—**automatic, collapsible, panic-proof** type of revolving wings, together with circular walls, ceiling and cornice. All glass to be best American plate. Hardware exposed to be of solid bronze or brass."

DETAIL SPECIFICATIONS

WALLS

The interior walls must be cylindrically true and smooth. No beading grooves or other irregularity of these surfaces can be permitted. The curved side walls must extend three-quarters (3-4) of an inch beyond the quarter diagonal line so that the four revolving wings will always be in contact with the walls of the vestibule, when the four wings in their revolving position are placed diagonally in reference to the two openings of the vestibule.

If side walls are to be hinged, they should be so specified.

CEILING

Must be flat and perfectly smooth as specified for inside side walls.

Slot closer in ceiling to be specified if desired.

WINGS

The revolving wings to be hung independent of each other on a central shaft, and held in a radial position by means of flexible bronze cables and so arranged that by the application of unusual pressure to any part or parts of any two of the revolving wings, the wings will automatically collapse and fold flat on each other in an outward position.

The revolving wings to be hung from a self-oiling ball bearing located in the ceiling chamber, and said carriage to be so constructed that it can be released from its central position by means of levers controlled by a pivot lifter, by one operation and moved to one side of vestibule.

Each set of revolving wings should have a governing device properly attached to central shaft, to control speed of wings when revolving, thus preventing the wings from spinning.

For the continuous revolving of the wings, Van Kannel Special Motor Control Device should be specified.

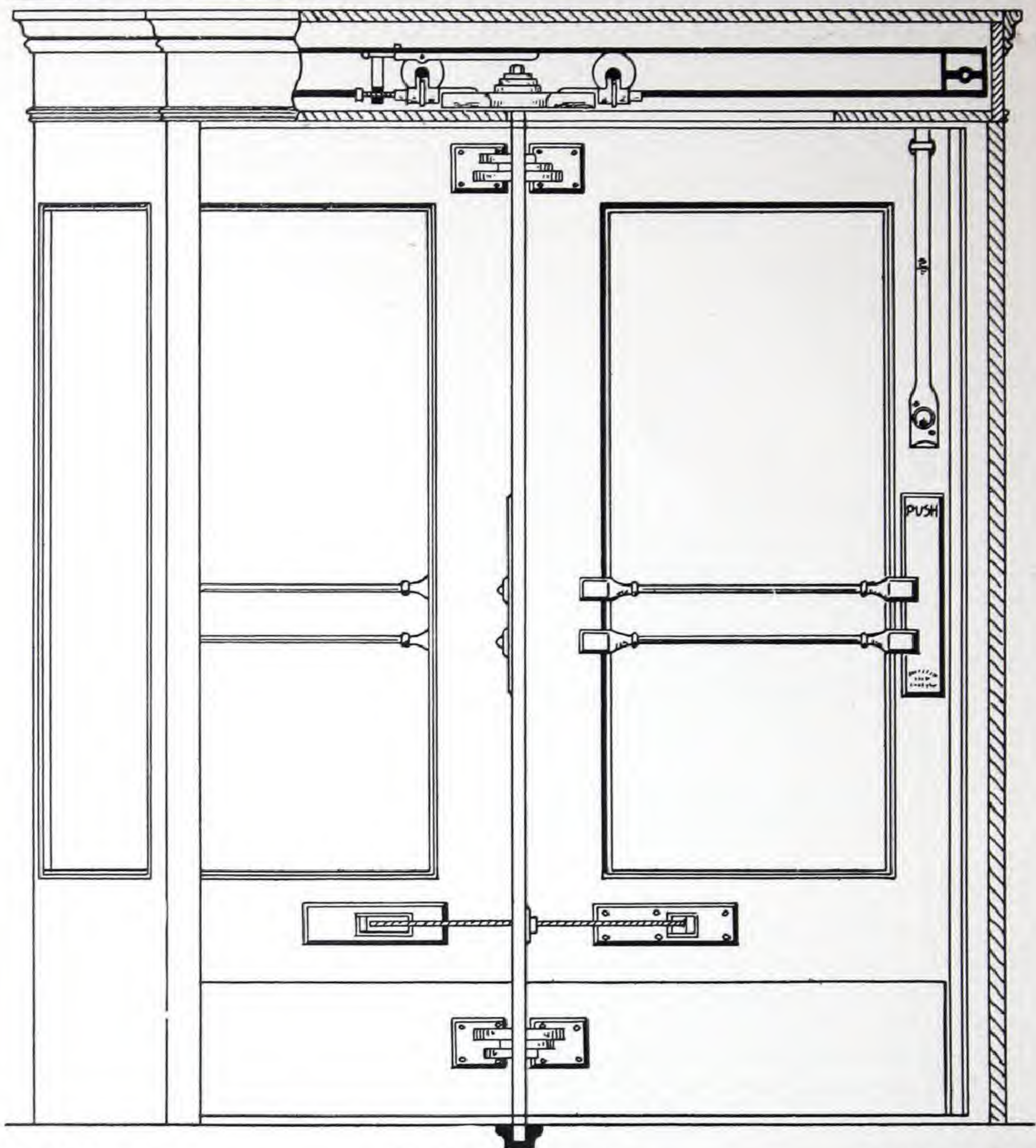
Each wing to be equipped with adjustable weather stripping at outer edge, top and bottom. The stripping at top to be best quality extra heavy felt,—stripping at outer edge to be specially molded rubber, tipped with best quality of heavy felt,—stripping at bottom to be plain flexible rubber. All corners of strips to be properly tacked together.

HARDWARE

Kickplates, handrails, pushplates and hardware, metal as specified; designs and finish as described and specified.

FINISH

The finish of material, whether wood or metal, should match up with surrounding work.



Scale $\frac{3}{4}''=1$

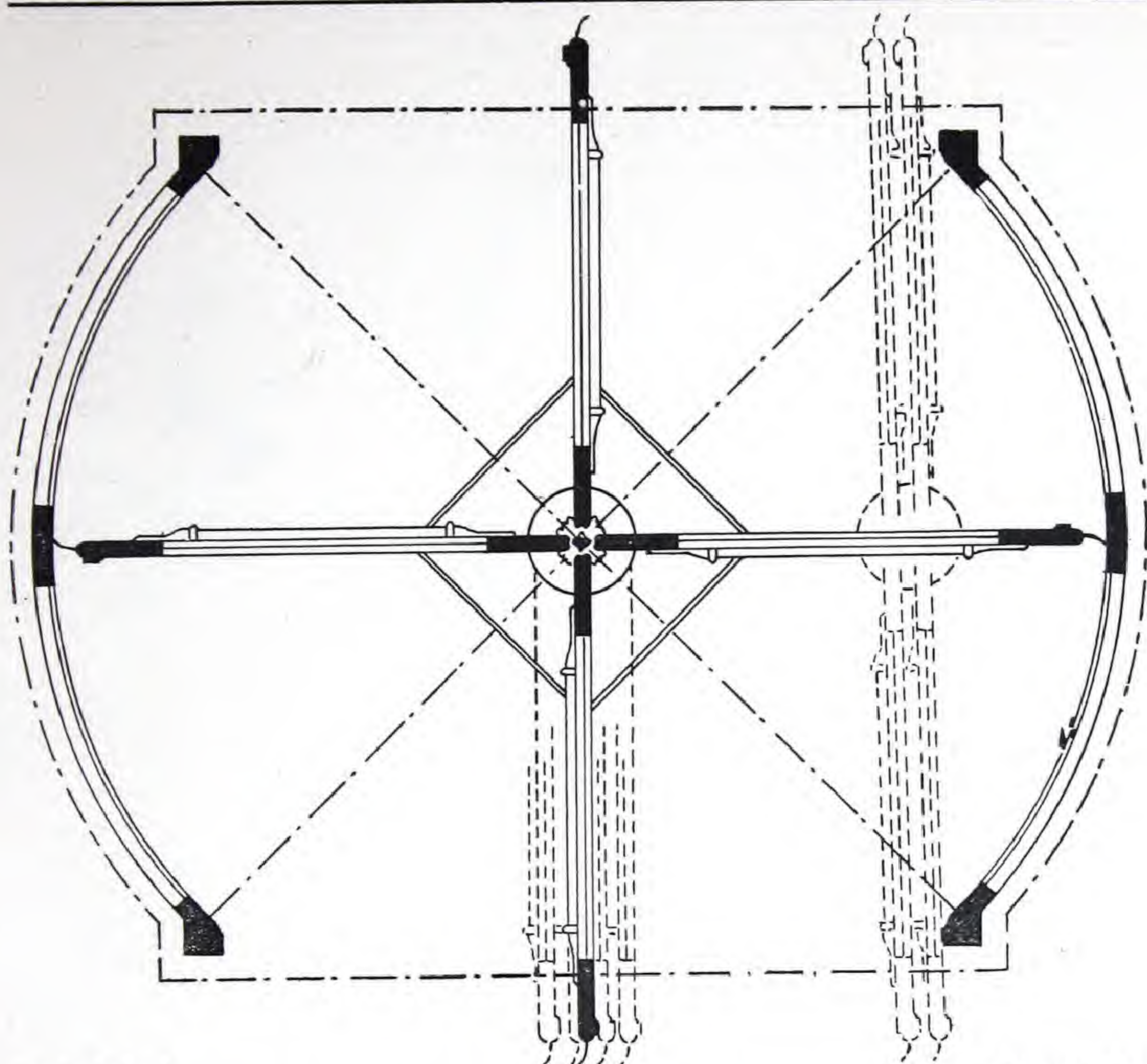
Sectional Elevation

Figure J 17

OPERATION OF PANIC-PROOF STYLE "JC" REVOLVING DOORS

Revolving doors are constructed so that the revolving wings are fastened independently on a central shaft, which central shaft is hung from its ball bearing, located in the carriage between the channel irons, forming the tracks in the overhead portion of the door. The lower end of this shaft has a vertical pivot or bolt which raises or lowers into the floor socket, similarly to our standard style, hereinbefore mentioned, and the entire weight being suspended from the overhead tracks.

The method of fastening each wing on this central shaft is done by means of drum and gear castings, which are held in place by sliding pins. These castings act as hinges. By the way this mechanism is put together, the wings can be collapsed on their hinges and will revolve around the central shaft and assume the positions as shown by dotted lines in figure J 18. In figure J 18 the wings are shown in their various positions. The solid lines show wings in rotating position; dotted lines showing wings folded on each other in a collapsed position, results of panic or other reasons. Dotted lines showing wings folded in pairs is an arrangement of wings for



Scale $\frac{3}{4}"=1$

Plan

Figure J 18

full open vestibule. Each wing is held in its extended position or at right angles to its adjoining wing by a cable brace as shown. One end of this cable is fastened permanently to the lock in wings, and the other end of the cable having a square rivet head, is held to the reverse side of the lock and held in place by a snap catch. When the pressure between any two of the revolving wings becomes greater than the usual amount of pressure required for rotating the revolving wings the square rivet head on the end of the cable slips from its fastening and releases its hold, thus allowing the wings to fold in their collapsed position.

Notwithstanding the firm method by which this cable end is held in the lock, when it is desired to release it by hand it can very easily be released by pulling it in the reversed direction, and when desired to engage it to the lock can be pressed in place very easily by hand. In order to gain the full amount of exit room, in case of a panic, the circular walls of the revolving door are made with two hinged sections which are held in their closed position by spring bolts shown in figure 13, page 15. These bolts are so constructed that when the pressure between the walls or against the inside of same becomes unusual the walls swing open into the position shown by dotted lines, figure 13, page 15. These wings contain the same folding principles as in the style "C" door and may be also folded and moved to one side of the opening as shown by dotted lines, they having the same channel irons as in the style "C" door in which is contained a carriage supporting the bearings that allows the wings to be folded over to the side of the opening. To accomplish this the lower pivot is raised by a lifter in the same manner as the "C" door which motion is transferred through the central shaft to a carriage in the trolley and unlocks the carriage from its central position, allowing it to be rolled over to one side. This carriage is a different type of carriage however, than used in the style "C" door.

VAN KANNEL REVOLVING DOOR COMPANY

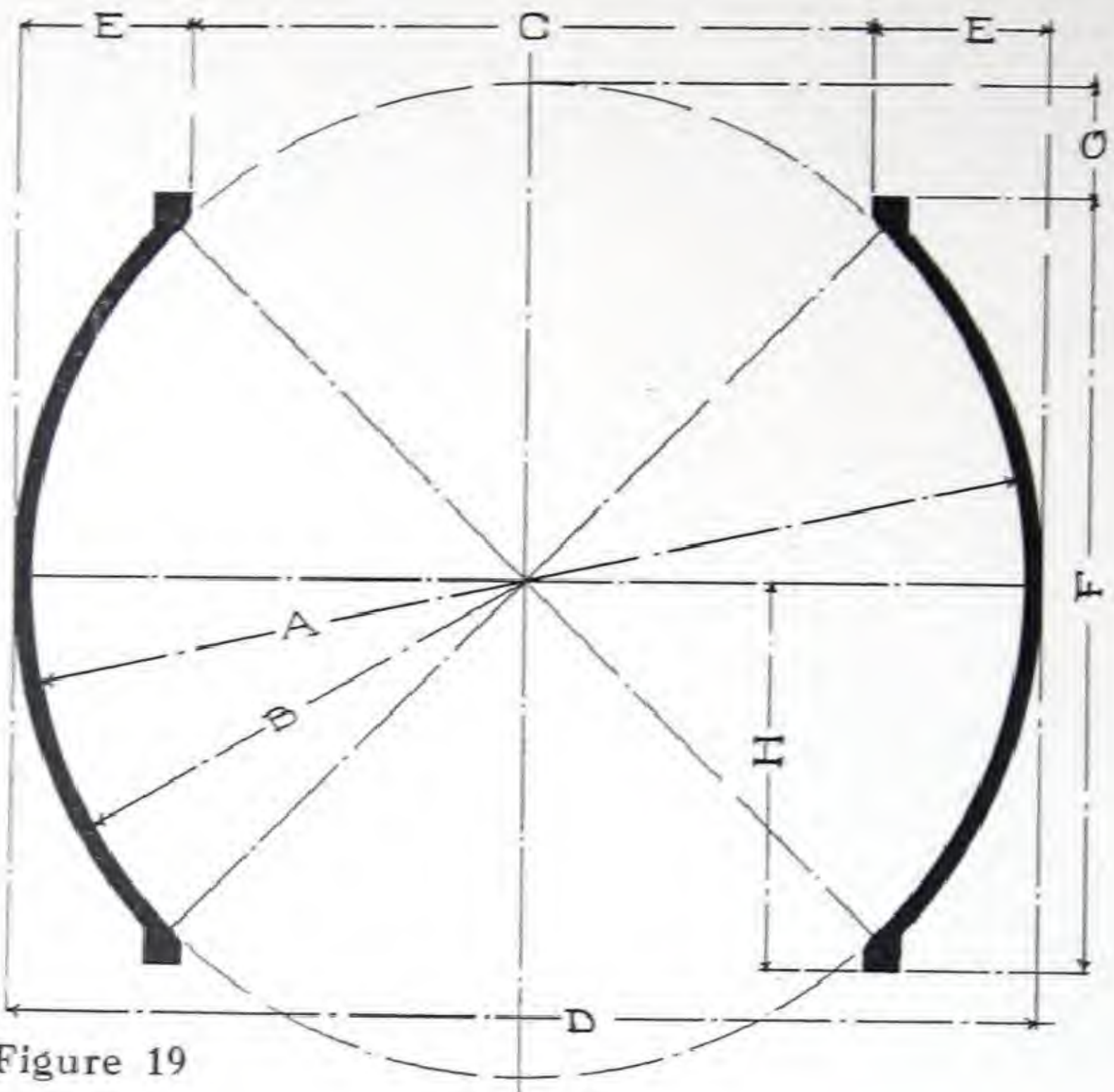


Figure 19

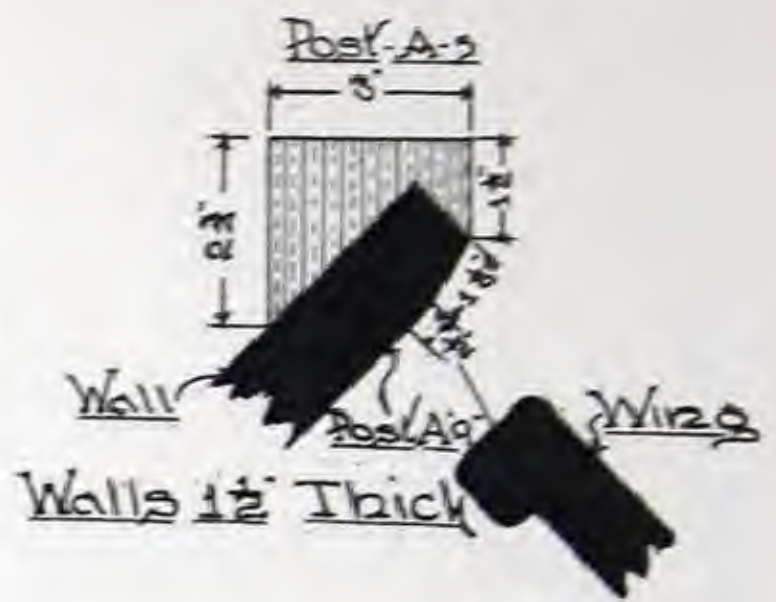


Figure 20

TABLE OF DIMENSIONS FOR FOUR-WING DOOR

A	B	C	D	E	F	G	H	
5'-8"	2'-10"	3'-10 $\frac{1}{4}$ "	5'-11"	1'-6 $\frac{1}{2}$ "	4'-5 $\frac{1}{2}$ "	7 $\frac{1}{4}$ "	2'-2 $\frac{3}{4}$ "	
5'-10"	2'-11"	3'-11 $\frac{1}{2}$ "	6'-1"	1'-7"	4'-7 $\frac{1}{4}$ "	7 $\frac{3}{8}$ "	2'-3 $\frac{3}{8}$ "	
6'-0"	3'-0"	4'-1"	6'-3"	1'-7 $\frac{1}{2}$ "	4'-8 $\frac{1}{2}$ "	7 $\frac{3}{4}$ "	2'-4 $\frac{1}{4}$ "	Standard Type Wings: Thickness 1 $\frac{1}{4}$ " to 1 $\frac{1}{2}$ ", wood. Thickness 1" to 1 $\frac{1}{2}$ ", metal.
6'-2"	3'-0"	4'-2 $\frac{1}{2}$ "	6'-5"	1'-8"	4'-10"	8"	2'-5"	
6'-4"	3'-2"	4'-4"	6'-7"	1'-8 $\frac{1}{2}$ "	4'-11 $\frac{1}{2}$ "	8 $\frac{1}{4}$ "	2'-5 $\frac{3}{4}$ "	Panic Proof Type Wings: Thickness 1 $\frac{1}{4}$ ", wood. Thickness 1" to 1 $\frac{1}{4}$ ", metal.
6'-6"	3'-3"	4'-5 $\frac{1}{4}$ "	6'-9"	1'-9"	5'-1"	8 $\frac{1}{2}$ "	2'-6 $\frac{1}{2}$ "	
6'-8"	3'-4"	4'-6 $\frac{1}{2}$ "	6'-11"	1'-9 $\frac{1}{2}$ "	5'-2 $\frac{1}{4}$ "	8 $\frac{3}{8}$ "	2'-7 $\frac{1}{8}$ "	
6'-10"	3'-5"	4'-8"	7'-1"	1'-10"	5'-3 $\frac{1}{2}$ "	9 $\frac{1}{4}$ "	2'-7 $\frac{3}{4}$ "	
7'-0"	3'-6"	4'-9 $\frac{1}{2}$ "	7'-3"	1'-10 $\frac{1}{2}$ "	5'-5"	9 $\frac{1}{2}$ "	2'-8 $\frac{1}{2}$ "	Door Vestibules: 4'-8" to 6'-0" diameter 3 wings. 6'-0" to 8'-0" diameter 4 wings. 8'-6" to 10'-0" diameter 6 wings. 7'-0" diameter normal.
7'-2"	3'-7"	4'-10 $\frac{3}{4}$ "	7'-5"	1'-11"	5'-6 $\frac{1}{2}$ "	9 $\frac{3}{4}$ "	2'-9 $\frac{1}{4}$ "	
7'-4"	3'-8"	5'-0"	7'-7"	1'-11 $\frac{1}{2}$ "	5'-8"	10"	2'-10"	
7'-6"	3'-9"	5'-1 $\frac{1}{2}$ "	7'-9"	2'-0"	5'-9 $\frac{1}{4}$ "	10 $\frac{3}{8}$ "	2'-10 $\frac{5}{8}$ "	
7'-8"	3'-10"	5'-3"	7'-11"	2'- $\frac{1}{2}$ "	5'-10 $\frac{3}{4}$ "	10 $\frac{5}{8}$ "	2'-11 $\frac{3}{8}$ "	
7'-10"	3'-11"	5'-4 $\frac{1}{4}$ "	8'-1"	2'-1"	6'-0"	11"	3'-0"	
8'-0"	4'-0"	5'-5 $\frac{3}{4}$ "	8'-3"	2'-1 $\frac{1}{2}$ "	6'-1 $\frac{1}{2}$ "	11 $\frac{1}{4}$ "	3'- $\frac{3}{4}$ "	Standard Size: 7'-0" to 7'-6" vestibules. Large enough for maximum capacity, excepting the 10'-0" 6-wing vestibule.
8'-2"	4'-1"	....	8'-5"	2'-2"	....	....	....
8'-4"	4'-2"	....	8'-7"	2'-2 $\frac{1}{2}$"	....	....	....
8'-6"	4'-3"	....	8'-9"	2'-3"	....	....	....
8'-8"	4'-4"	....	8'-11"	2'-3 $\frac{1}{2}$"	....	....	....
8'-10"	4'-5"	....	9'-1"	2'-4"	....	....	....
9'-0"	4'-6"	....	9'-3"	2'-4 $\frac{1}{2}$"	....	....	....
....	

THREE-WING REVOLVING DOOR

STYLE "MC"



Figure 21

THREE-WING REVOLVING DOOR—STYLE “MC”

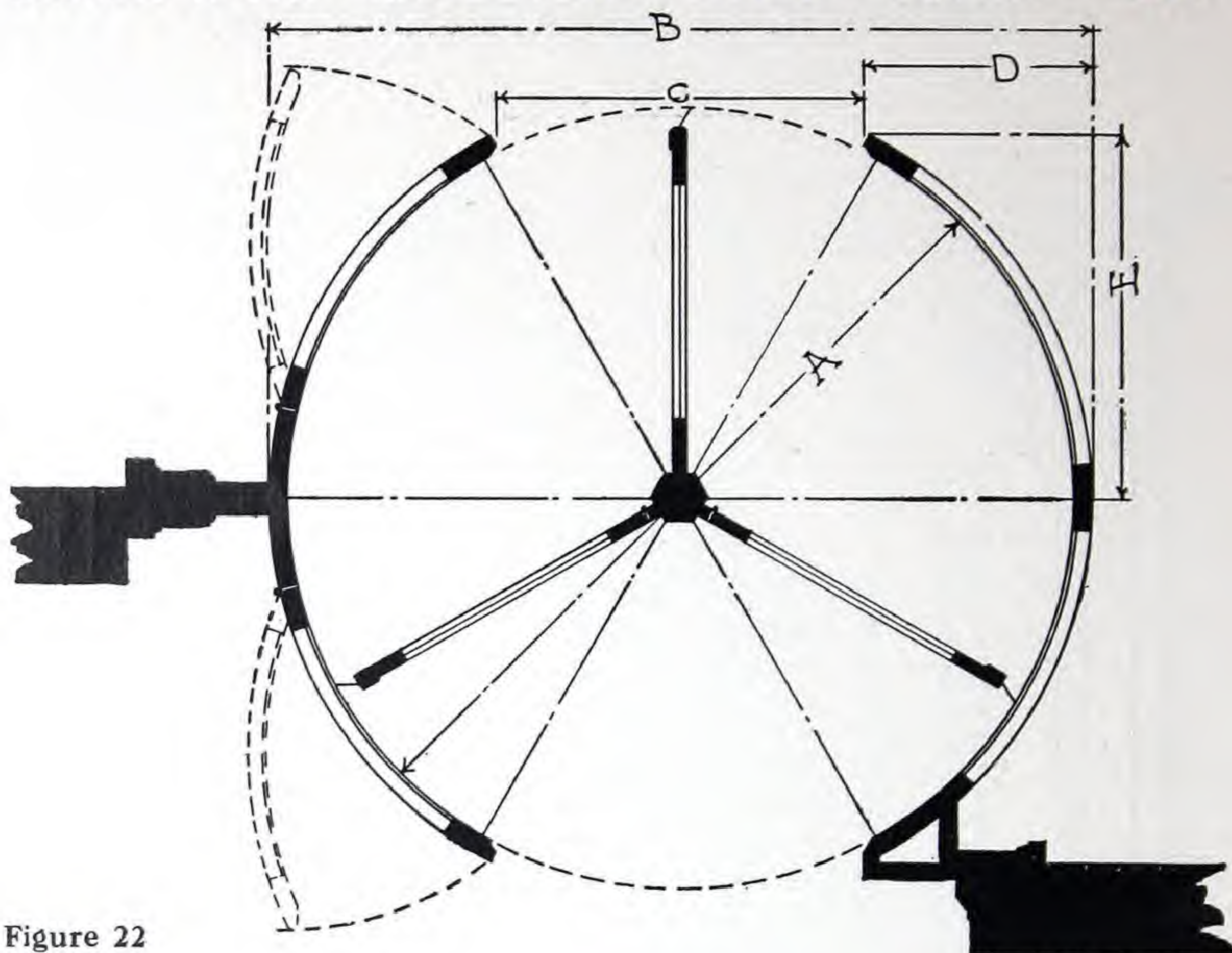


Figure 22



Fig. 23 Position 1



Fig. 24 Position 2



Fig. 25 Position 3

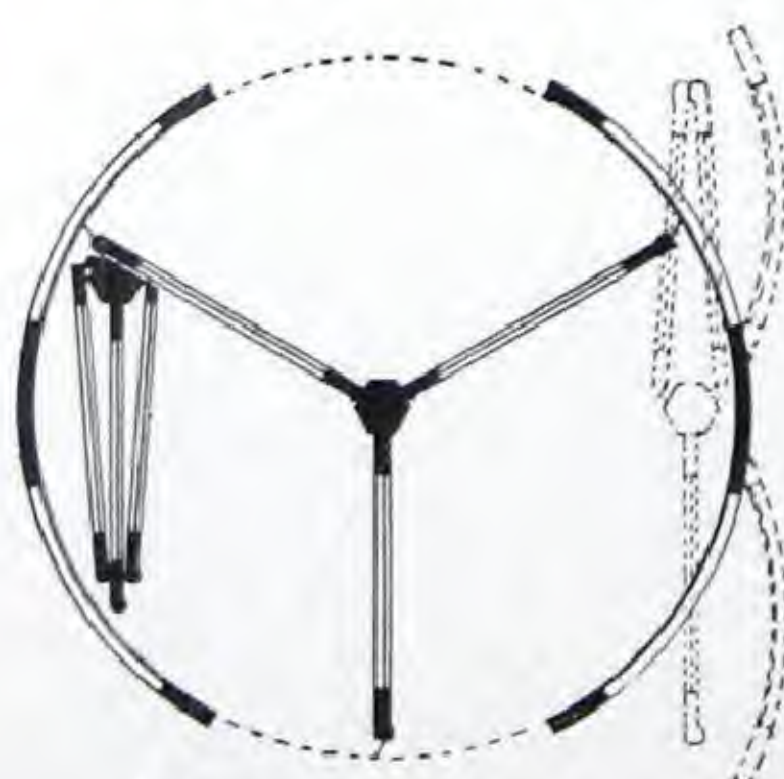


Fig. 26 Position 4

No.	A	B	C	D	E	F
1	4'- 8"	4'-11"	2'-1 ³ / ₄ "	1'-4 ³ / ₄ "	2'-21 ¹ / ₈"	.....
2	4'-10"	5'- 1"	2'-2 ³ / ₄ "	1'-5 ¹ / ₈ "	2'-3 ¹ / ₈"	.....
3	5'- 0"	5'- 3"	2'-3 ³ / ₄ "	1'-5 ³ / ₄ "	2'-4"	.....
4	5'- 2"	5'- 5"	2'-4 ³ / ₄ "	1'-6 ¹ / ₈ "	2'-4 ⁷ / ₈"	.....
5	5'- 4"	5'- 7"	2'-5 ³ / ₄ "	1'-6 ³ / ₄ "	2'-5 ³ / ₄"	.....
6	5'- 6"	5'- 9"	2'-6 ³ / ₄ "	1'-7 ¹ / ₈ "	2'-6 ⁵ / ₈"	.....
7	5'- 8"	5'-11"	2'-7 ³ / ₄ "	1'-7 ³ / ₄ "	2'-7 ¹ / ₂"	.....
8	5'-10"	6'- 1"	2'-8 ³ / ₄ "	1'-8 ¹ / ₈ "	2'-8 ³ / ₈"	.....
9	6'- 0"	6'- 3"	2'-9 ³ / ₄ "	1'-8 ³ / ₄ "	2'-9 ¹ / ₄"	.....
10	.....	.....	.....	.....	.....	.....

DESCRIPTION OF THREE-WING REVOLVING DOOR

STYLES MB AND MC

The three-wing type of door is convenient only when space will not allow larger vestibules. The dimension required in width is from 4 feet 8 inches to 6 feet; height, ordinary.

In operating a three-wing door vestibule it is not convenient for people to pass in both directions at the same time, i. e., the capacity is somewhat on the order of a single swinging door, although far superior because where people are using this type of revolving door there is no space lost in stepping back and forth as in swinging doors. Also, in a single swinging door where there are a large number of people using same, the door is open almost all the time cooling off the building or office to such an extent that it is uncomfortable for everybody. In revolving door vestibule the doors are always closed.

Style MB of three-wing revolving door. Each circular wall is equal to one-third of the circumference and the opening at opposite sides of vestibule is one-sixth the circumference. In this style the walls of the vestibule are usually stationary but they can be hinged to open out as in our Style F shown on page 6 referring to styles. The revolving wings do not fold or move aside, but one wing can be folded as shown in Position No. 2 on drawing of the three-wing type, thus affording a free and unobstructed passage when desired.

Style MC three-wing revolving door is similar to MB, excepting the wings can be folded and moved to one side of vestibule, shown in Position No. 3 and No. 4 on drawing of the three-wing type.

For dimensions of sizes refer to the drawings and table of dimensions. See page 22

SIX-WING REVOLVING DOOR

STYLE G I

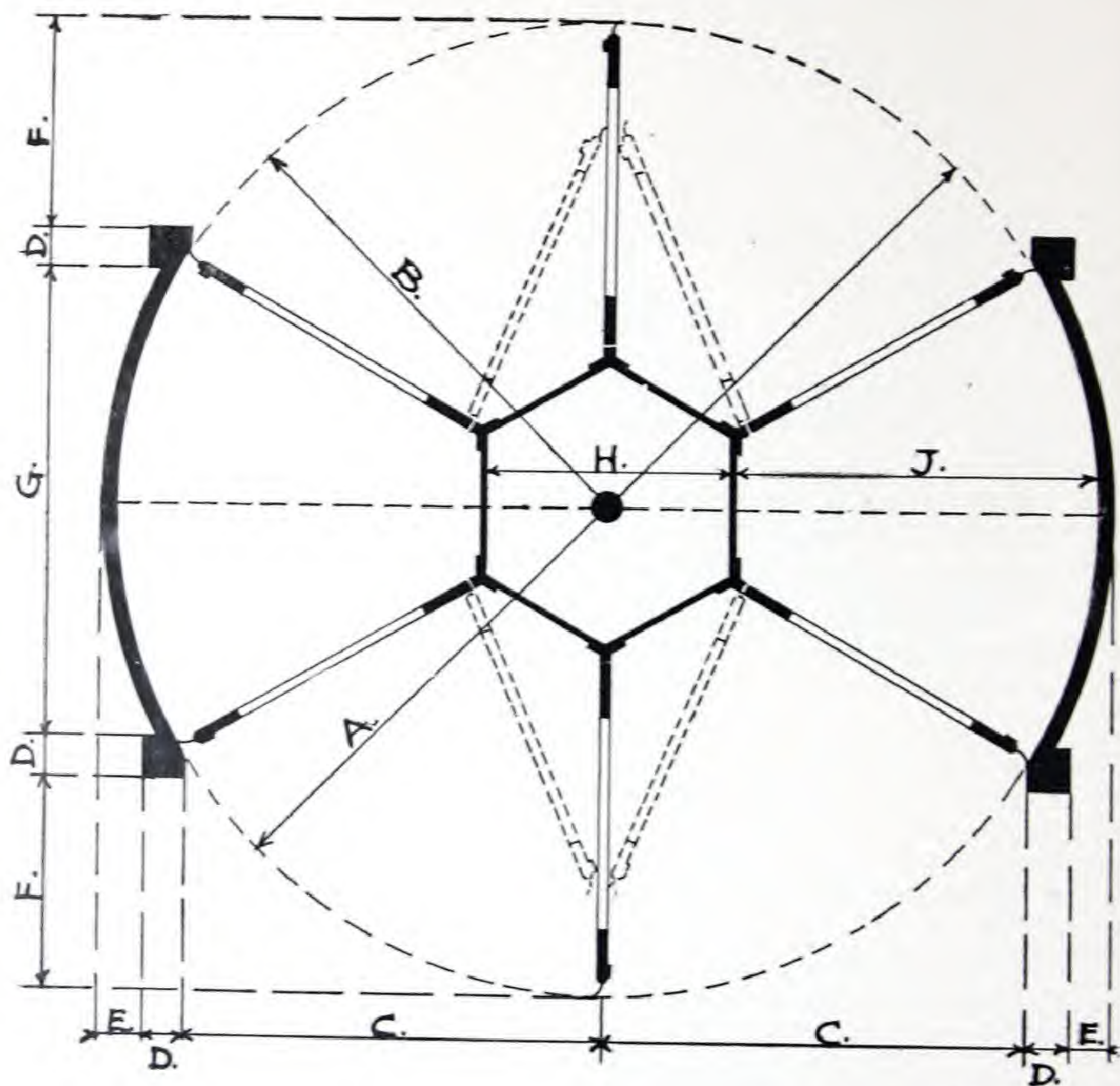


Figure 27

A	B	C	D	E	F	G	H	J
9'-0"	4'-6"	46"	51"	41"	23 1/4"	51"	30 1/4"	38 3/8"
9'-6"	4'-9"	48 1/8"	51"	41 1/2"	24 1/4"	54"	30 1/4"	41 1/8"
10'-0"	5'-0"	51 1/4"	51"	5"	26 1/4"	57"	30 1/4"	44 3/8"
10'-6"	5'-3"	53 1/8"	51"	5 1/2"	27 1/4"	60"	30 1/4"	47 3/8"
11'-0"	5'-6"	56 1/2"	51"	5 3/4"	29 1/4"	63"	30 1/4"	50 3/8"

DESCRIPTION OF SIX-WING REVOLVING DOOR

STYLE G I

In this style G I six-wing revolving door the standard size is 10 feet diameter, although they are made from 9 feet up to 12 feet in diameter. This style of door is very successfully used where full benefit of the entire opening is desired, and at same time too small to permit the installation of two separate revolving door vestibules.

In department stores this type of revolving door is particularly advantageous, as they have a capacity of about 7000 people per hour.

The wings of this type of revolving doors are so hung that they can swing in either direction to suit the conditions, but the wings do not move to one side of the vestibule as in our three and four-wing types.

It is customary in this type of revolving doors to revolve the wings by means of motor power, although it is by no means an absolute necessity. The weight of the doors is so evenly balanced that they can be rotated very readily.

In the illustration of plan shown (see page 24), together with the table of dimensions, a very good idea is given as to how these doors are manipulated, and the amount of room required for the installation of same. The display case can be left out and a smaller central chamber shaft substituted to meet the conditions in a six-wing vestibule of 9 feet diameter.



Fig. 28 STYLE K

or they may be constructed of a number of vertical sections, three or four in number, shown in right hand wall Fig. 29. These extend from the floor to the ceiling of the revolving door.

These permanent walls may also be constructed of tiling, mosaic, or of brick and finished in plaster that becomes hard, smooth and polished.

The floor should be laid of a design to correspond with the circular form of the vestibule. (See Fig. 28).

The ceiling is usually constructed of two pieces of flat marble, extending from one curved wall to the other, the lower surface to be quite flat and cylindrically true with the floor and walls.

A slot must be made in the marble ceiling for the king-bolt, from which the four wings are suspended, and sufficient room must be provided above the ceiling for the trolley.

The wings may be made of bronze, wood or steel as may be desired.

The following buildings have our Style K Revolving Doors installed:

St. Paul Building	(2), New York City.....	Geo. B. Post, Architect.
Williamson Building	(3), Cleveland, O.....	" "
Prudential Ins. Co. Building	(6), Newark, N. J.....	" "
North American Building	(2), Philadelphia, Pa.....	J. H. Windrim, "
Mariner & Merchant Building	(3), Philadelphia, Pa.....	" "
and many others.		

We furnish to architects, builders and contractors, full detailed drawings and specifications of our Style K Revolving Door when desired.

Contractors having the building of the circular vestibule, will be furnished with our **Revolving Template**, free of charge except for transportation. By the use of this device, the walls and ceiling may be made cylindrically true.

**PERMANENT WALL TYPE
REVOLVING DOOR**
(For Main Entrances)

In large buildings, especially where the entrance is made up of massive walls and piers, we suggest adopting Style K, so that the curved walls and ceiling may form a part of the permanent structure of the building, thus making an ideal entrance for the best class of buildings. Many of the foremost architects are adopting our Style K, and none other meets with more general approval.

DESCRIPTION

The two curved walls are usually made of marble either in large segmental sections and broken joints as shown in Fig. 28 (also the left wall of Fig. 29),

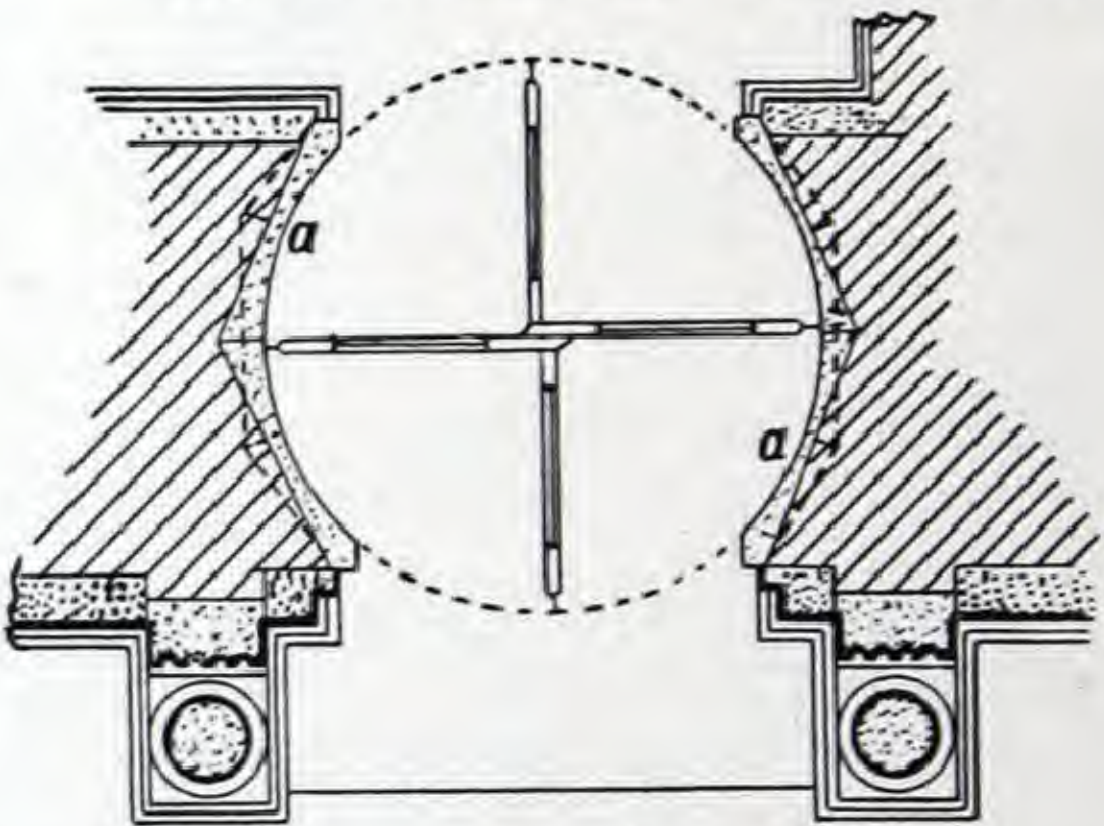


Fig. 29

VAN KANNEL REVOLVING DOOR COMPANY

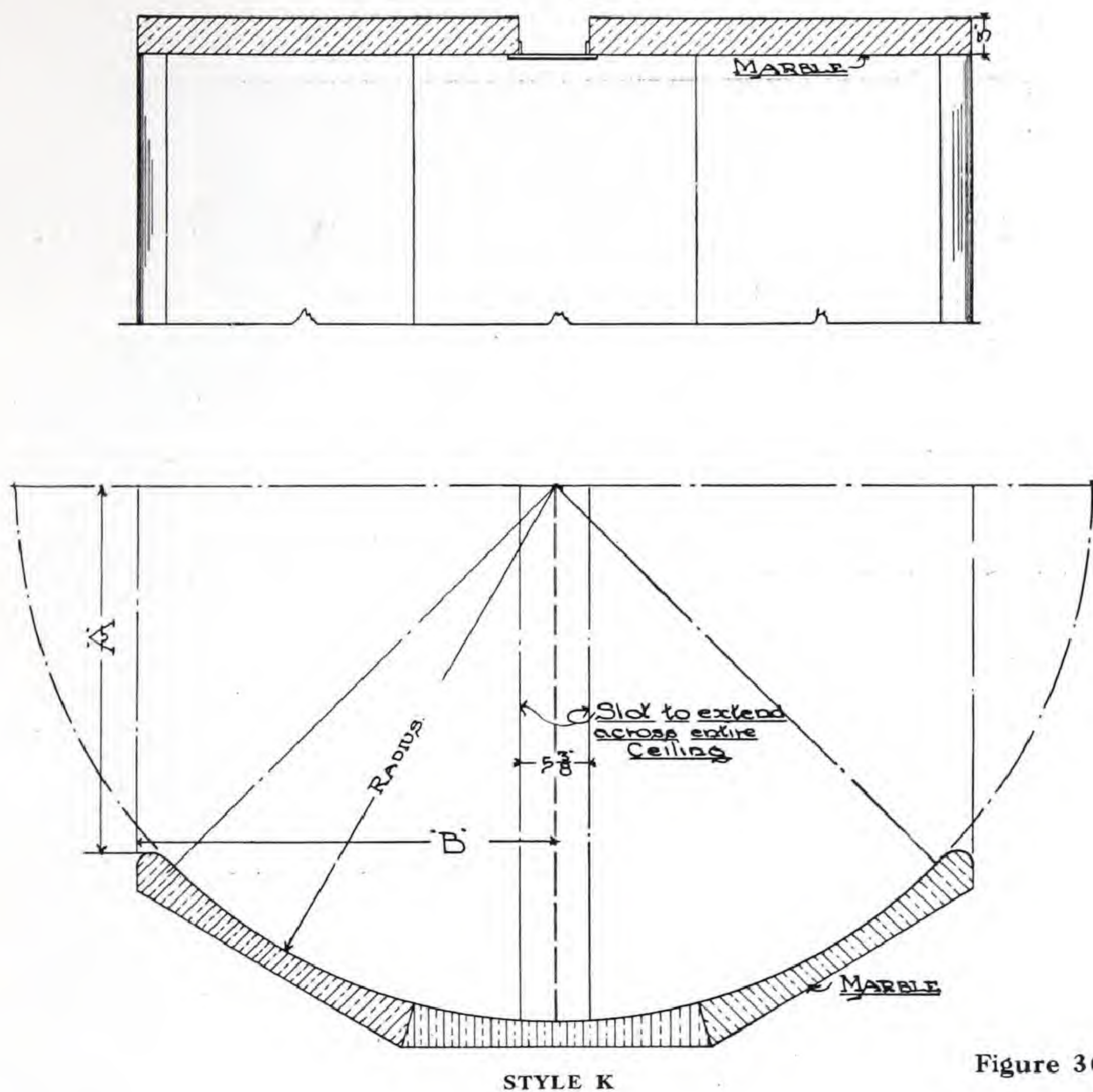


TABLE OF DIMENSIONS

Rad.	A	B	Rad.	A	B
3'-0"	24 $\frac{1}{2}$ "	28 $\frac{1}{4}$ "	3'- 7"	29 $\frac{3}{8}$ "	33 $\frac{1}{4}$ "
3'-1"	25 $\frac{1}{4}$ "	29"	3'- 8"	30"	34"
3'-2"	26"	29 $\frac{3}{4}$ "	3'- 9"	30 $\frac{3}{4}$ "	34 $\frac{5}{8}$ "
3'-3"	26 $\frac{5}{8}$ "	30 $\frac{1}{2}$ "	3'-10"	31 $\frac{1}{2}$ "	35 $\frac{3}{8}$ "
3'-4"	27 $\frac{1}{4}$ "	31 $\frac{1}{8}$ "	3'-11"	32 $\frac{1}{8}$ "	36"
3'-5"	28"	31 $\frac{3}{4}$ "	4'- 0"	32 $\frac{1}{8}$ "	36 $\frac{3}{4}$ "
3'-6"	28 $\frac{3}{4}$ "	32 $\frac{1}{2}$ "			

GOVERNING DEVICE

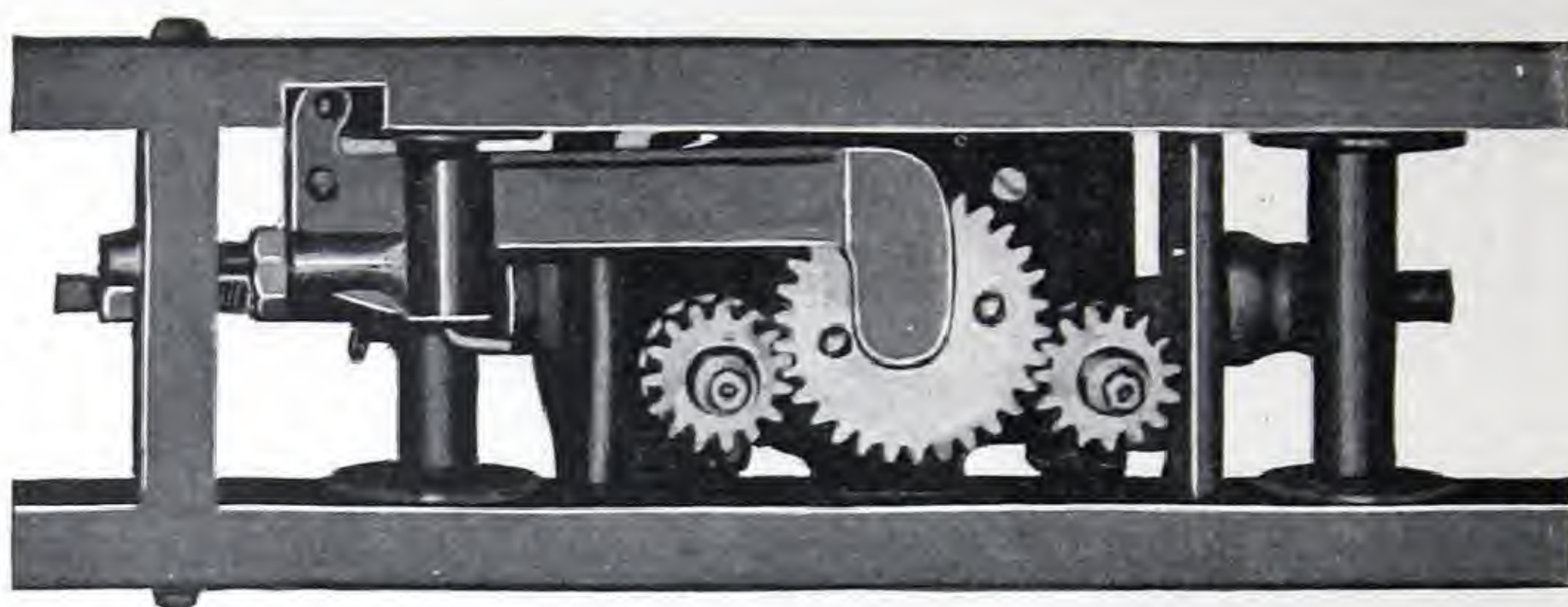


Figure 31

DESCRIPTION

The Governing Device is one of the many special features connected with the manufacturing and superior equipment of Van Kannel Revolving Doors, the only ideally equipped type of door in the World.

The installation of a speed governing device does not in any way interfere with the rotation of the wings but simply controls the revolving wings and does away with the **only** objection to the use of revolving doors, i.e., spinning of the wings when a person goes through the vestibule in a great hurry. By the use of the speed governor, all danger of accidents from the use of Revolving Doors is eliminated.

The Governor is made and constructed along the lines of a liquid door check. The main body of the Governor is attached to the ball bearing door carriage and is made with a large hole in the center so that it fits closely on the central shaft holding the wings. At the top is a medium-sized gear wheel and on either side are two smaller gears which are in direct connection with the two pistons which travel in opposite directions in the liquid chambers of the Governor.

The passage or valve chamber connecting the piston chambers can be regulated so that it takes as much force as is desired to perform the operation of revolving the doors. This valve screw being adjustable regulates the speed of the doors. In case the doors are revolved rapidly instead of spinning, as in doors, not properly equipped, the doors stop in one revolution.

In purchasing revolving doors it is very essential to have Governing Devices included in the full equipment of the doors and wherever used they give entire satisfaction—see illustration for a general idea.

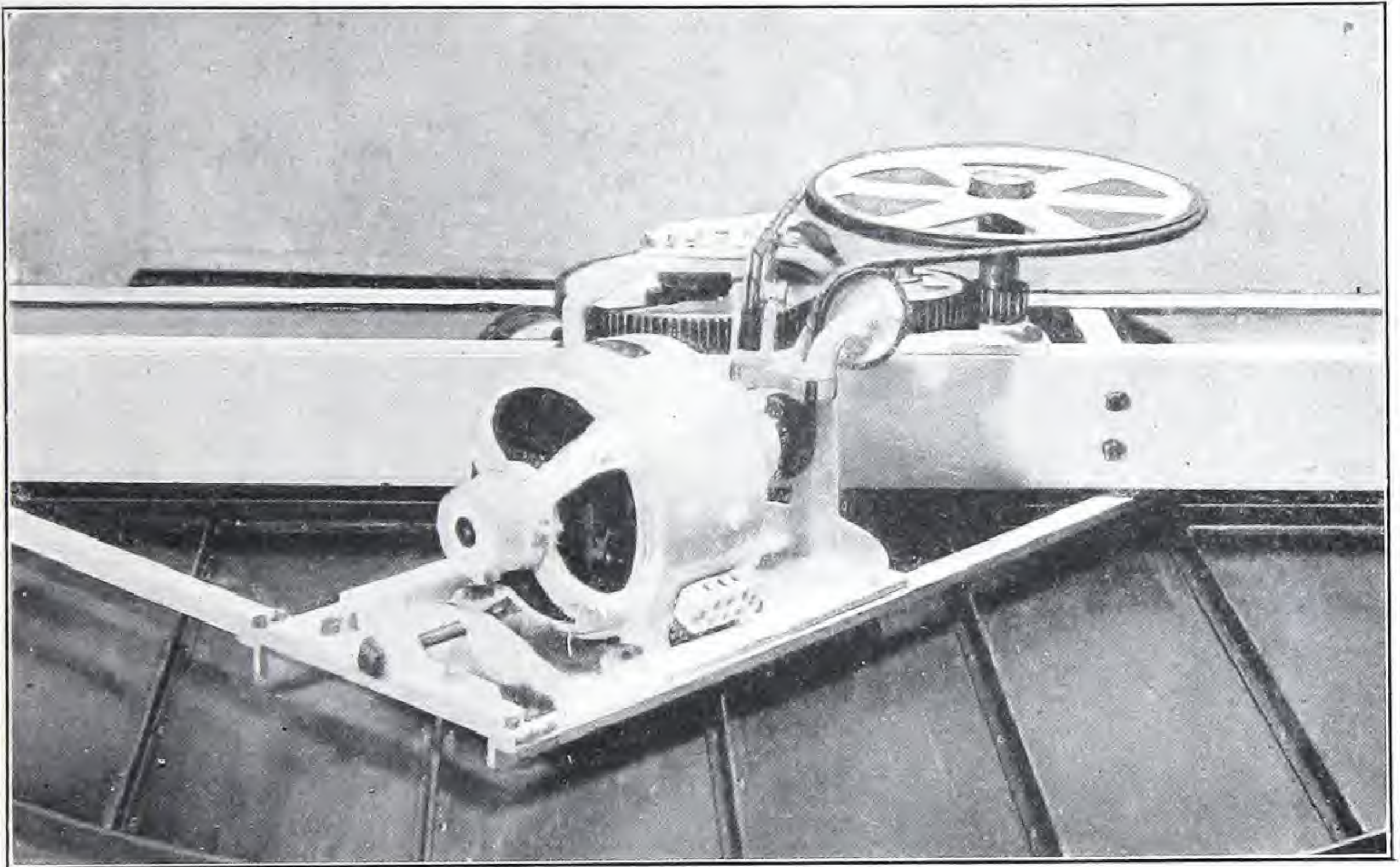
Where Governors are required for doors that are already installed, the cost of adjustment to revolving doors varies according to the style of the overhead trolley carriage.

We furnish full instruction with each device so that any local mechanic or machinist can attach same properly.

In ordering Governors for doors installed, kindly give date of purchase so that we may determine the type of overhead trolley carriage in use.

For prices write to our general offices or any of our various representatives throughout the country.

MOTOR CONTROL DEVICE



This Motor Control Device is made up as shown in the cut, and the mechanical parts and speed are so arranged to be run with special motors with a speed of about two hundred revolutions per minute, being furnished for 110, 115 or 220 volts, direct current. For alternating currents we have extra special mechanical attachments. The motor is so arranged that the wings may be constantly rotated, or so that a door attendant may start the wings rotating by pushing a button when it is desired to have the wings revolve in order that people may pass through the vestibule.

This device, above illustrated and described, is especially adapted for doors installed in hotels and department stores.

For prices and particulars write to our general offices or any of our various representatives throughout the country.

REVOLVING FIRE-DOOR

(For Interior Passageways)

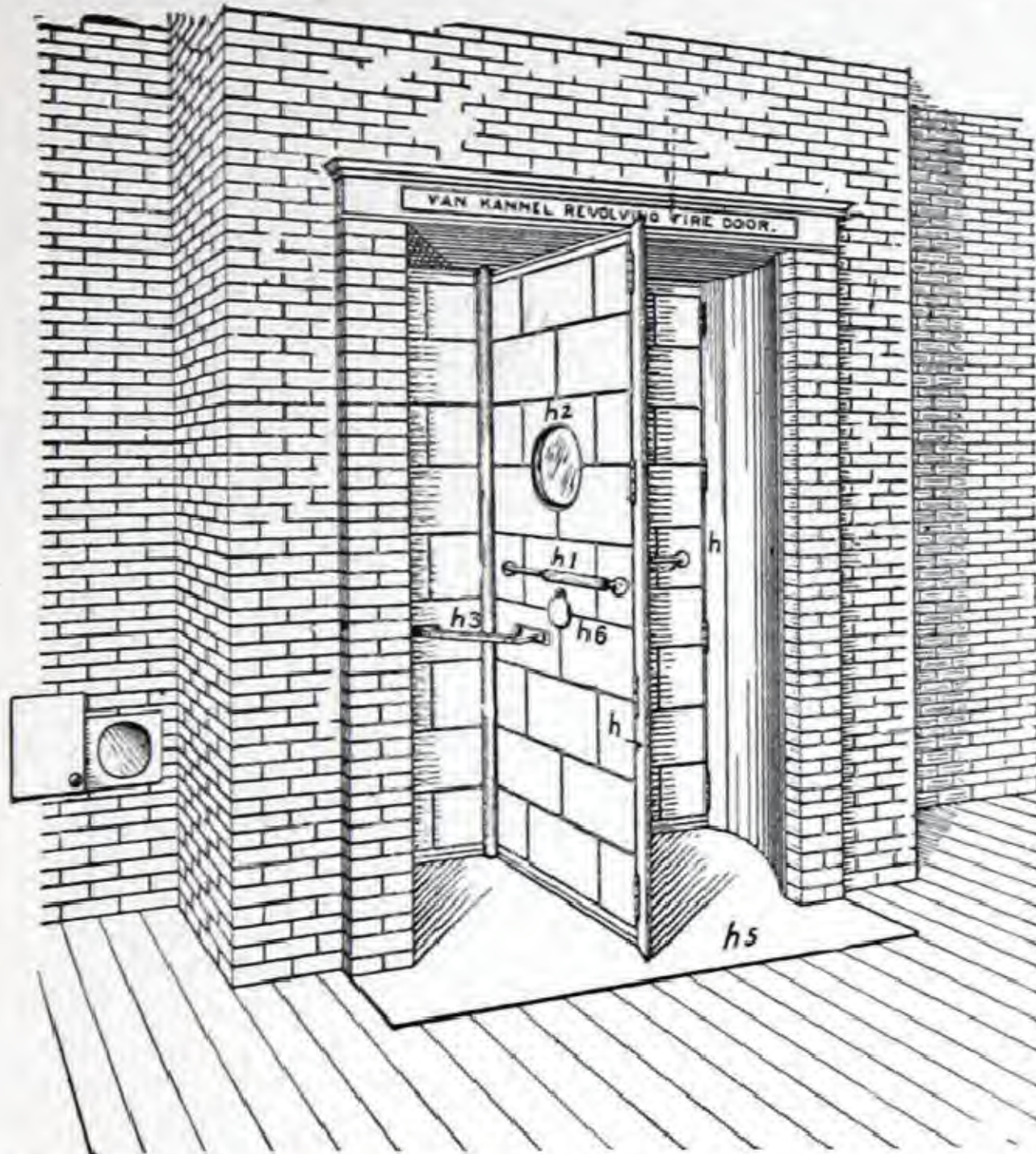


Figure 33. STYLE H

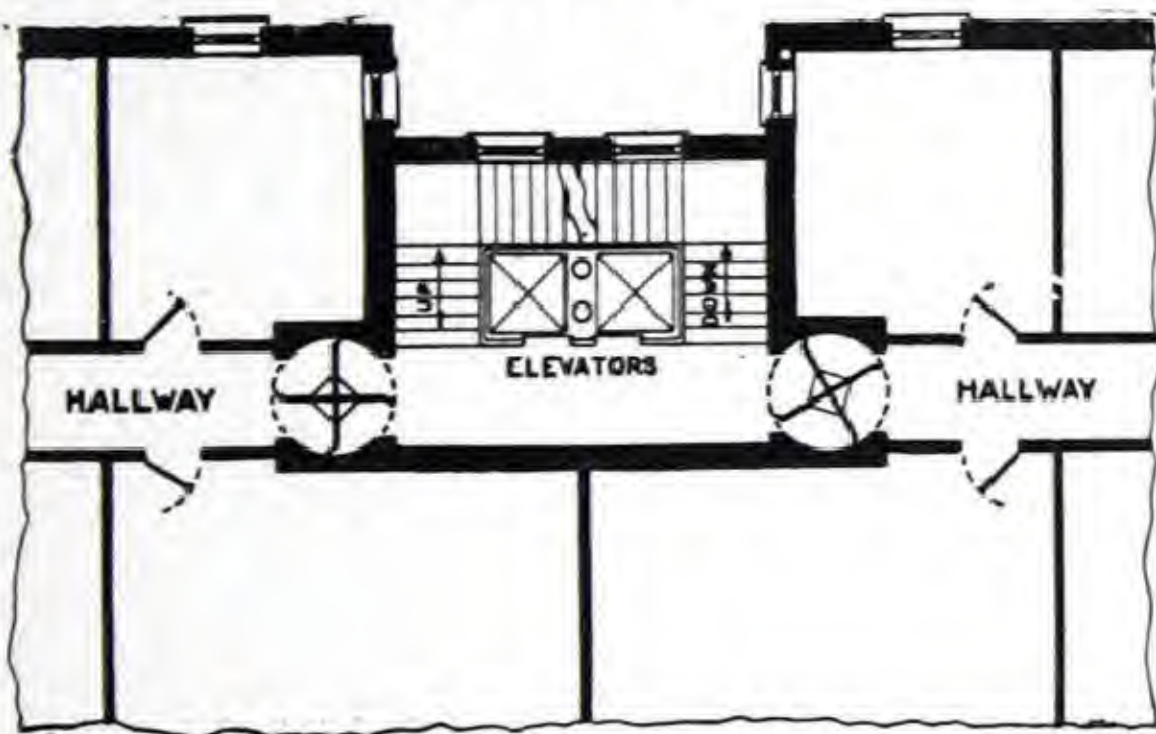


Figure 34

by dense smoke, and that persons losing their bearings, become bewildered and are in consequence unable to find their way out of a burning building and die from suffocation, it is evident that smoke becomes the great danger to life, while more damage is caused to goods from smoke than that from fire direct.

Figure 34 represents an interior arrangement of buildings frequently met with. By placing Revolving Fire-Doors on every floor as shown, no fire on any floor can reach the stairway and elevator shaft. This permits persons to reach the main exit in safety from every part of the building. This New Safety System may be installed at so small a cost, that the saving in insurance premiums will more than pay the expense.

Interior Fire-Doors can be handsomely made and would in no wise detract from the architectural effect of the interior of the building, as in hotels, etc.

In large factories, warehouses, etc., where a number of rooms and floors communicate with each other through doorways in partitions, it becomes a matter of greatest importance to completely and effectually cut off one room from another to prevent the spreading of the flames in case of fire.

The Revolving Fire-Door which is "always closed" is a **faithful sentinel always on guard**, where it stands as a wall against the passage of fire, while it permits the occupants of the rooms to pass out freely and safely.

We need not delve into old records, for reminders of the many fearful holocausts, wherein entire families have perished in burning hotels, factories and other buildings. The daily press gives us such instances almost every day.

It will be conceded that disastrous fires frequently occur in so-called fire-proof buildings, causing great loss of life; that all fire-escapes, as popularly constructed, do not furnish a safe escape, and in many buildings where they have been in use, many lives were lost; that fire-escapes are unsightly and for that reason often placed where least accessible in time of need; that escape to these devices is often cut off by flames passing out of the windows or doors intended as exits to the fire-escapes, while ice and snow in winter greatly increase the danger to those who are forced to use them; in case of fires in hotels and other buildings, the elevator shaft and stairways form the quickest communication for flames and smoke from floor to floor, thus cutting off escape by this channel; where the main stairway is constructed around or near the elevator shafts, this danger is multiplied and seems to be especially well arranged to quickly spread the fire from floor to floor and obstruct or completely prevent escape; very little or no provision is ever made in building to assist the Fire Department to quickly reach a fire, or adding to the safety of the firemen while at work in extinguishing it. Large sums of money are expended for comfort and architectural beauty, but little or none for safety.

When it is considered that a person can seldom live beyond **three or four minutes** while surrounded

DESCRIPTION.

The two curved walls are preferably made of brick, the interior being plastered and brought to a smooth hard surface. The four wings are made of plain wood, covered with sheet steel, or any other approved fire-proof construction. The air tight packing between the wings and walls, floor and ceiling are made of a special material of which asbestos is the main ingredient. In most cases no large glass is used in the wings, but a small opening, **h2**, closed with wired glass is used instead.

Strong iron braces, **h3**, hold the wings in their extended position. The hand rail, **h1**, is covered with fire-proof felt, to prevent burning the hand. To the left is seen an aperture with a hinged cover to permit a fire hose being passed through, and at **h6** in one of the wings, so that a fireman may play a stream of water on a fire, and be protected from the heat and smoke.

Wire Glass. For Hotels and other first class buildings wired glass may be placed in curved walls, wings and transom, preventing the glass from falling out in case of a fire.

Note to Architects:—Full descriptions and blue prints will be furnished to architects on request, and special drawings made illustrating the most practical methods of adopting **Revolving Fire-Door**, especially where it is to be used in hotels, etc., where a more elaborate and neat appearance may be desired.

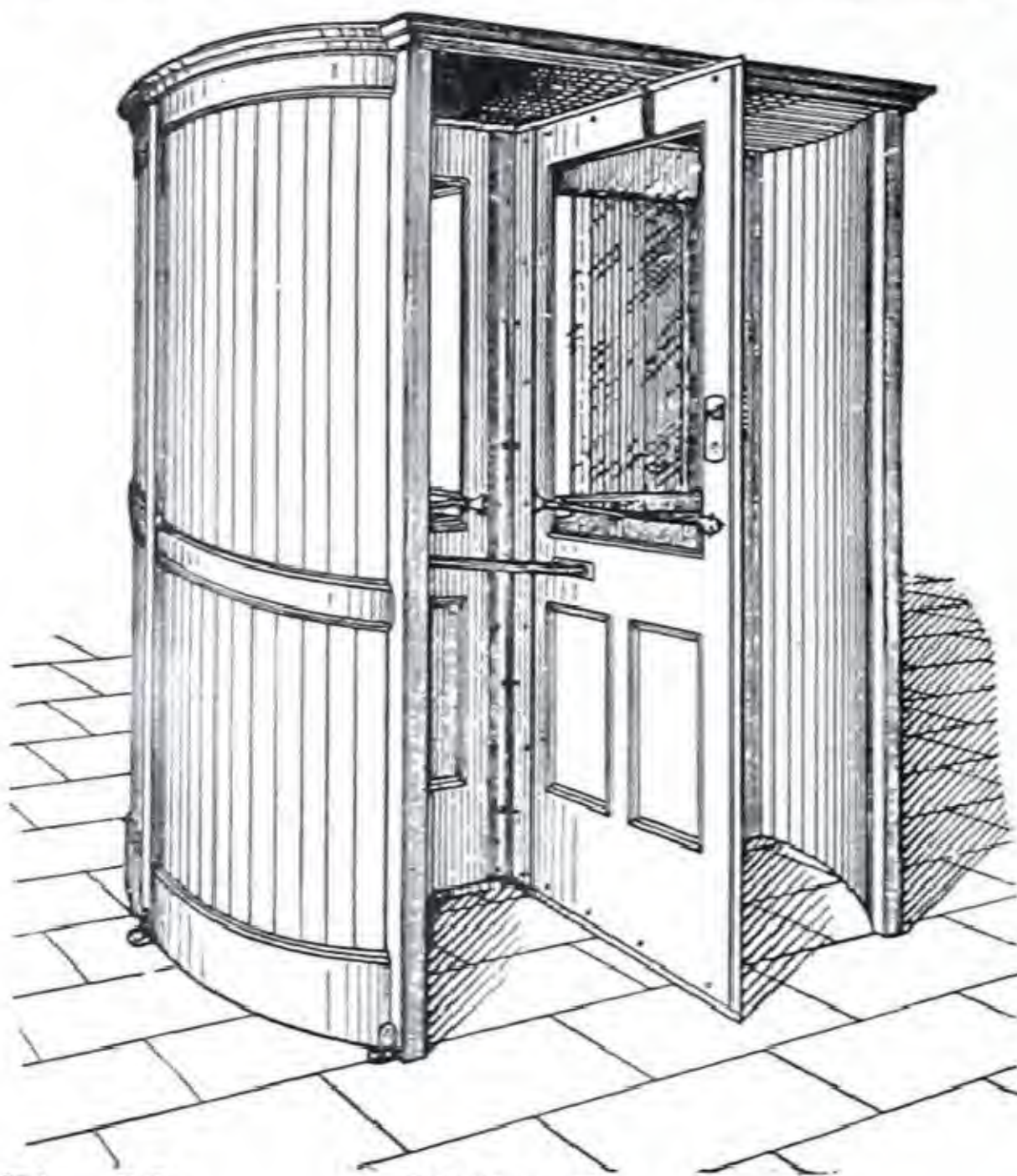


Fig. 35

STYLE B

INEXPENSIVE REVOLVING DOOR

(For Main Entrances)

Figure 35 represents one of our cheapest structures known as Style B.

Wings may be folded and bolted to ceiling in "central open position" as in diagram Figure 3, but not moved aside.

It is intended for ordinary entrances generally.

DESCRIPTION

Walls. The two curved walls are of design **a101**, made in two sections of $7 \times 2\frac{1}{2}$ -inch tongue and groove stock, beaded outside, smooth inside, held in place by three wooden bent bands neatly moulded, let into recesses cut in the vertically running stock, the lower band or base being extra heavy. The four jambs are rectangular in form.

The Ceiling. Design is made of jointed, dowelled and glued stock $2\frac{1}{2}$ inches wide, in two separate parts, and a strong moulding is placed around the edge, 2 inches in depth, all forming a circular vestibule 7 feet in diameter and $7\frac{1}{2}$ feet in height both inside measurements.

The Wings. Design **c108**. The four revolving wings are made solid, $1\frac{1}{4}$ inches thick. The two permanent wings are rigidly fastened together in a straight line, to which the two hinged wings are joined by means of six steel bronze-plated butts. Glass openings in wings 28×42 inches—with moulded glass tops. All wood-work of plain oak—filled and varnished two coats.

Fixtures. The wings are mounted on two cast iron pivots having adjusting screws to take up the wear. The four wings rest and revolve on the lower pivot. Two rigid metal drop-arms engage automatically with, and hold the four wings extended, and are arranged to permit the wings being folded in the central position. (See Fig. 3.) Each wing has a metal hand rail attached on the approaching side, also a **PUSH** plate on the outer stiles. The outer edge of each wing is provided with a wide pliable strip (to prevent injury to hands), also weather strips, at top and bottom of each wing, all of which make the door weather proof. Two metal bolts of special make, attached to top of wings, fasten wings in central open or locked position.

The entire structure will be shipped complete ready to erect (except glass and filling pieces between revolving door and the building entrance), with full directions for erecting the same.

Note: Any other design of woodwork may be used in conjunction with B fixtures.

When writing for information and prices, be guided by "Directions for Measurements," page 45.



Figure 36 STYLE L

FACTORY TYPE REVOLVING DOOR

It is of great advantage in many departments of manufacture to exclude dust, noise, smoke, fumes, etc., from certain parts of the establishment, as in Textile Mills, Dye Houses, Metal Works, Carpet Cleaning, Electro-Plating, Paintworks, Spice Mills, etc.

It often occurs that a room containing grinding and polishing machinery, its air laden with the keen cutting dust from emery wheels and grindstones

adjoins a room containing fine lathes, planers and other costly machinery.

Or a room containing some nerve-racking **noise** from machinery or work, adjoins a room where quiet is most essential.

Or a room containing **acid baths** or other chemicals, in process of manufacture, or used in factory work, which should be confined to the room.

Or a passageway leading to a **varnish room**, where all dust should be carefully excluded. All these difficulties can be remedied by the use of revolving doors, of the factory type.

An important use for the Revolving Door is to place it in the doorway leading to the Engine Room, to prevent the coal dust from reaching the Engine. The saving thus effected to a large costly engine will pay the expense of a Revolving Door many times over.

DESCRIPTION

This type of door is usually of a rugged make, strong and durable. The walls have channel iron bands holding the vertical tongue and groove stock in place and to a true circle.

The wings are made of cross lapped flooring, with a small light of glass in each wing. The fixtures are plain and strong.

Each wing has a hinged face board tipped with felt at its vertical edge, making it strong, tight-fitting and durable.

In some cases where protection against the spread of fire is important, the **Revolving Fire-Door** is used in a modified form.

COLLAPSIBLE TYPE REVOLVING CHURCH DOOR

(For Main Entrances)

This type is especially intended for churches and similar places where large audiences congregate. While retaining all the features of the Standard door to exclude the cold, wind, dust and noise, it is essentially "**Panic Proof**," giving full and free exit in case of emergency.

It is specially arranged to be opened by an audience rushing outward, **regardless of care or reason**, neither of which can be depended on in a panic-stricken crowd.

In some cases it is arranged to be **folded and moved aside** (as during funeral services) to permit a casket to be readily carried through the door-way.



Figure 37

STYLE J

Van Kannel Revolving Door makes it possible to do away with the extensive lobbies and vestibules usually found in most types of churches, consequently increasing the seating capacity, with the same amount of area. Revolving doors exclude draughts, dust and noise, and render all pews comfortable

DESCRIPTION

The walls and ceilings are of the usual construction, except that they are of ecclesiastical design, and made to harmonize with the wood work of the entrance the door is to occupy.

The four revolving wings are so arranged and held in their extended position, that on the application of a force but slightly beyond the normal, the four wings all fold flat on each other, and in an **outward direction**. This action is entirely automatic, requiring no one to manipulate any part of the structure. (See Fig. 39.)

In some cases the walls are also divided up in sections, and hinged, in order to provide an increased opening, as shown in Fig. 40 (known as Style F). These hinged sections are also self-opening and are held in their normal position by self-releasing spring bolts.

A door, therefore, having style F walls, and style C fixtures, may be placed in position as shown, giving the fullest opening to the structure. (See Fig. 40.)



Figure 38



Figure 39



Figure 40



Figure 41

In writing for information, state the number of door-ways in the building, and give a sketch of the main building and entrances. (See page 45.)

AIR-LOCK REVOLVING DOOR

(For Interior Doorways)



Figure 42

STYLE CE

This elegant design is intended only for the highest class of buildings, for interior use, and for this reason is constructed differently from the regular Revolving Storm Door. It is to prevent the air currents passing from one room or apartment to another, an **Air-Lock**, but often it is of equal importance to exclude sound as well, a duty which this door fully performs.

The Postal Telegraph Co., New York, have a revolving door on their 12th floor, leading into the operating room to exclude the noise of the telegraph instruments.

Thirty-one Air-Lock Revolving Doors are installed in the Metropolitan Life Insurance Co.'s new building, Madison and Fourth Avenues and 23rd and 24th streets, all of which are placed above the ground floor, to exclude draughts and sound. Being made fireproof, they act as efficient fire doors.

The Prudential Life Insurance Co. of Newark, N. J., have about 36 air-locked doors placed in the entrances of toilets.

The United States Rubber Co., 11 Murray Street, New York, have a revolving door placed at their entrance between the hallway and their offices to exclude draught and the noise of the elevator doors.

When modified according to the special uses it is intended for, the Air-Lock Revolving Door is of great utility in various interior doorways.

VAN KANNEL REVOLVING DOOR COMPANY

For Legislative Halls, in Committee Rooms, so that conversations may not be overheard in adjoining rooms or hallways.

In Libraries, where perfect quiet is of the greatest importance to exclude the annoying conversations outside the reading rooms, etc.

In Court Houses, where the noise from the hallways often becomes a great annoyance to the presiding judge, the jury and the witnesses.

It is especially useful in large Hotels and Mansions in the doorway leading to the main dining room; also between the parlor and reception room, etc.; entrances to ball-rooms, etc. Many important changes are made in the details of this door over revolving doors for ordinary uses.

Full information will be given on special inquiry only.



FOR OTHER USES

In Residences—The Revolving Door makes an ideal entrance closure for residences. It is less massive and has C fixtures permitting the wings to be folded and moved aside for carrying through pianos, furniture, etc. It presents a pleasing architectural effect and like all our doors, prevents the entrance of chilling draughts of wind. It puts a veto on the caller who takes special delight on departing, to hold the door open for several long minutes while recapitulating the last hour's conversation, filling the hallways with cold and discomfort. **This door cannot be held open.** It is provided with self-acting lock and a conversation slide window to enable the person within to converse with a caller before admitting him. This door will prove a welcome friend to those residing in the suburbs. Showing how the door may be made a permanent part of the entrance.



Hotel Kitchens.—The doorways leading from the dining room to the kitchen of hotels, restaurants, etc., have received earnest study from their owners and architects, as it has always been desirable to exclude from the dining room the odor, fumes, and noise of the kitchen, as well as to prevent confusion and annoyance caused by the slamming and kicking of doors and collisions of the waiters. The Revolving Door for this purpose is made somewhat larger than usual, of very light weight, giving a quick and quiet transit to employees.

In Hotels, we often find the injurious and offensive odors from the toilet and laundry rooms, filling the offices, halls, guests' rooms, and even the dining rooms. Place a Revolving Air-Lock Door leading to the offending room, and a ventilating stack or flue from its ceiling to the top of the building and provide an intake flue near the floor. This will abate the nuisance at a small expense.

Cold Storage.—Breweries, cold storage houses, etc., where the outer heat is to be excluded will find the application of the Revolving Door a great economizer and making the maintenance of an even, low temperature much easier. A special structure is devised, which makes it efficient for this purpose.



Greenhouses, especially those frequented by the public, should be protected by Revolving Doors. Where large crowds pass in and out, the temperature is often lowered to a degree injurious to the plants. It also occurs that the entrance door is left open by accident, ruining the entire costly collection. The use of a Revolving Door, when specially designed and made, adds much to the beauty of a greenhouse. It is applicable to every kind of house where an even temperature is essential to protect plants or animals.

Zoological Gardens.—The Revolving Door has lately been adopted with great success and benefit in some of the largest and best appointed Zoological Gardens for the protection from draughts of animals from tropical countries.

It is only by means of a door that is "always closed," that it is possible to retain constantly an even temperature, free from draughts, and making perfect ventilation possible.

We have placed Revolving Doors in the Lion House, Monkey House, and Antelope House of the New York Zoological Gardens.

The same principle may be applied to maintain a low temperature in enclosures where polar bears and other animals from arctic regions are confined for the edification of the public, by excluding the hot air from without, while the spectators may freely pass in and out.



In Hospitals this make of door of the standard diameter of 7 feet, or even less, will be found an excellent "air lock" between rooms, where air communication is to be cut off from the rest of the building, yet giving admittance to persons. A perfectly isolated room can be secured by making the entrance from a suitably constructed balcony, having the revolving door only for the entrance, and no communication whatever with the main building except to and from the balcony. A series of these rooms could be placed side by side, using an extended balcony or porch for them all. For ventilation, extra flues being constructed leading to the top of the building. Architects having the designing of Medical Colleges or Hospitals are invited to correspond with us, with a view of adopting the Revolving Door in various ways for these purposes.

School Houses.—Probably no building deserves greater care and attention than the school house, and when it is considered that the doors of the school houses are **entirely open** while the crowds enter and leave the building, then **entirely closed**,

between these periods it must be seen how utterly impossible it is to maintain an even temperature. There is but one remedy—**keep the doors closed all the time**—then regulate the heaters and ventilators as may be required.

The **Collapsible Revolving Door** should be used in school houses to insure a perfectly safe exit in case of a panic, or when passing out in processions under fire drills.

Printing Offices.—It sometimes occurs that the presses are placed in positions near the entrance door of the pressroom, and in cold weather, the sudden lowering of the temperature chills the ink to such an extent as to seriously interfere with the work. We have placed revolving doors in some of the leading daily paper establishments with the result of entirely remedying this difficulty.

Noise Excluder.—In many places, besides factories, it becomes a matter of importance to exclude sound, as in telegraph operating rooms, typewriting schools, etc., while in some industrial works it may be as useful in this capacity as the Storm Door is to exclude the cold wind. (See description page 32 and 33.)

Baths.—In large bath houses, where Turkish baths are given it becomes of great importance to prevent any variation of the desired degree of heat to those in the lounging rooms especially. These doors being opened at irregular intervals it is impossible to maintain a uniform temperature. The danger is not alone in colder air, but great injury may be caused by the temperature rising above the required point, caused by over-heating the room with the object of overcoming the cold entering through the door.

Many other uses will be found for the "always closed" door, and we must look to the **progressive architect** to adopt it, not only for the uses herein enumerated but for many other purposes.



1192 Series



Stock Doors

No. 1192—1 and 2

Stock Design

Any style called for on page referring to styles.

Diameter

Any diameter.

Height

Any height from 6'6" to 8'6".

Cornice

2 1-4" high.



1192—1

Woodwork

Any material desired, as well as finish.

Exposed Hardware

Solid bronze metal, finish as desired.

Glass

American polished plate glass, 16 1-2" from floor.

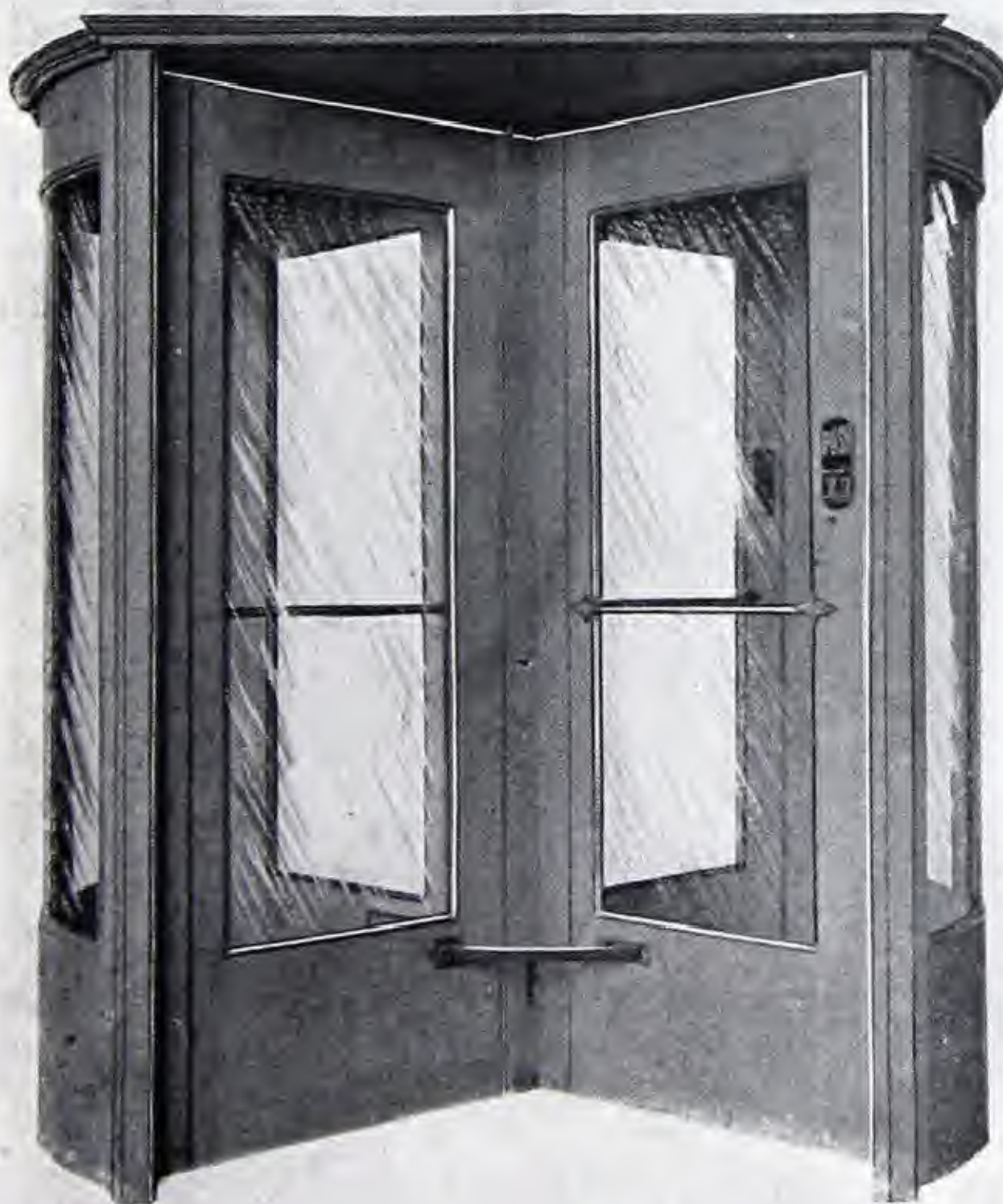
Kickplates

8" high, of No. 16 gauge bronze metal.

Keylock Bolts or Plain Bolts

Keylock Bolts, 2 in a set. Bronze, operated by cylinder key, locked both sides of opening.

Bronze Bolts used where keylocks are omitted.



1192—2

STANDARD REVOLVING DOOR VESTIBULES

Stock Doors

No. 1192—3 and 4



1192 —3

Stock Design

Any style called for on page referring to styles.

Diameter

Any diameter.

Height

Any height from 6'6" to 8'6".

Cornice

8" high.

Woodwork

Any material desired, as well as finish.

Exposed Hardware

Solid bronze metal, finish as desired.

Glass

American polished plate glass
16 1-2" from floor.

Kickplates

8" high, of No. 16 gauge
bronze metal.

Keylock Bolts or Plain Bolts

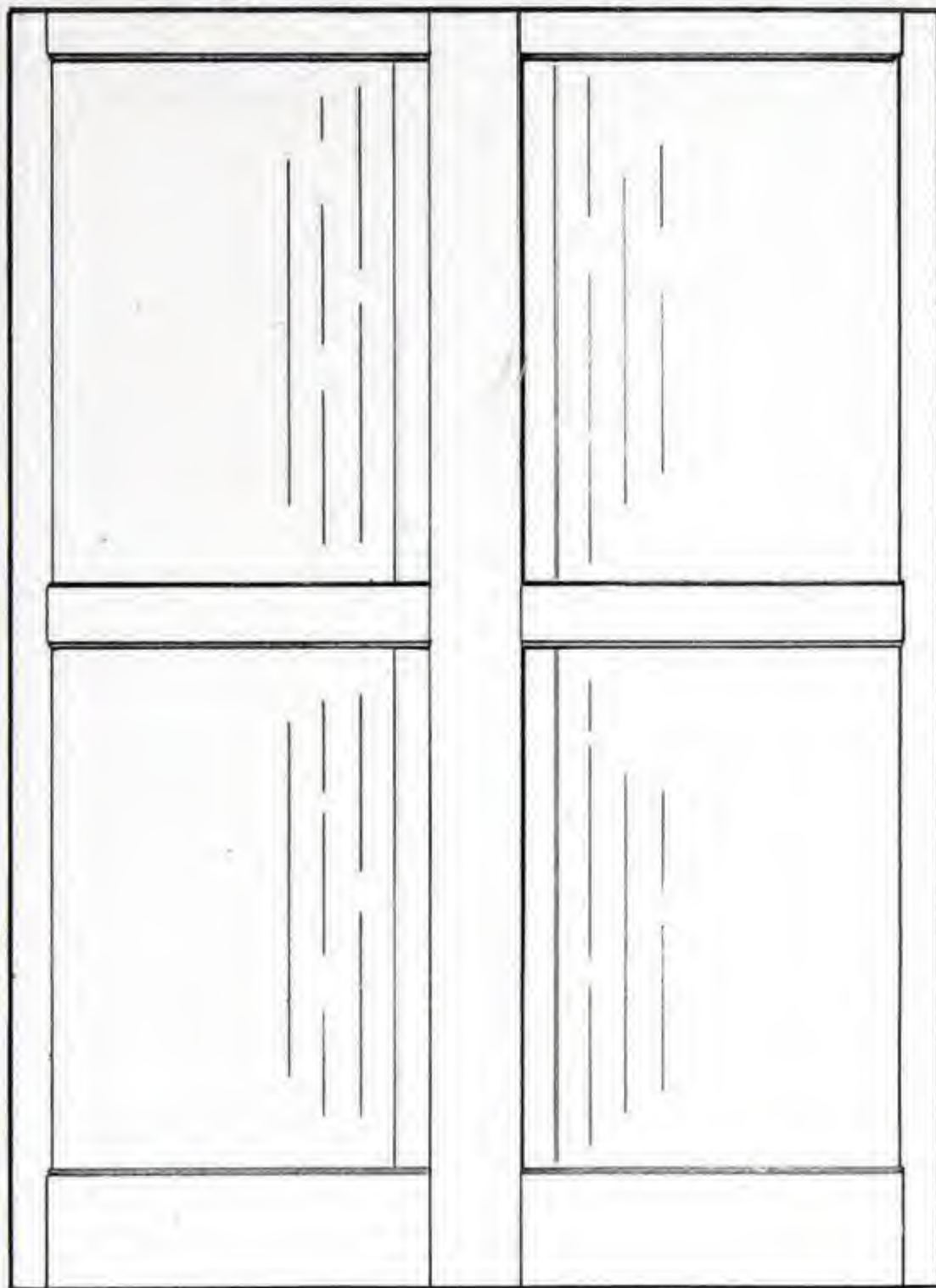
Keylock Bolts, 2 in a set.
Bronze, operated by cylinder
key, locked both sides of
opening.

Bronze Bolts used where
Keylocks are omitted.

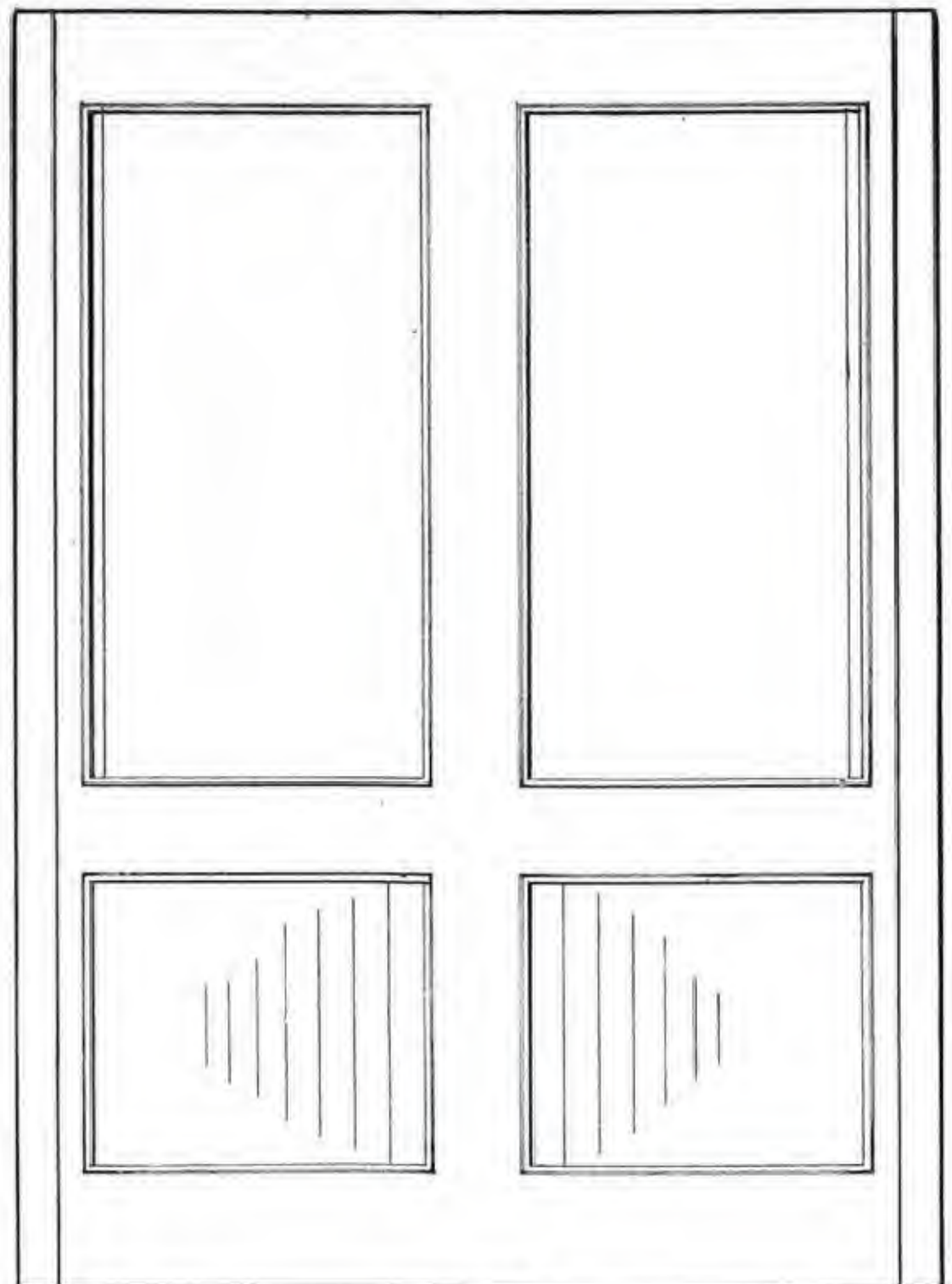


1192—4

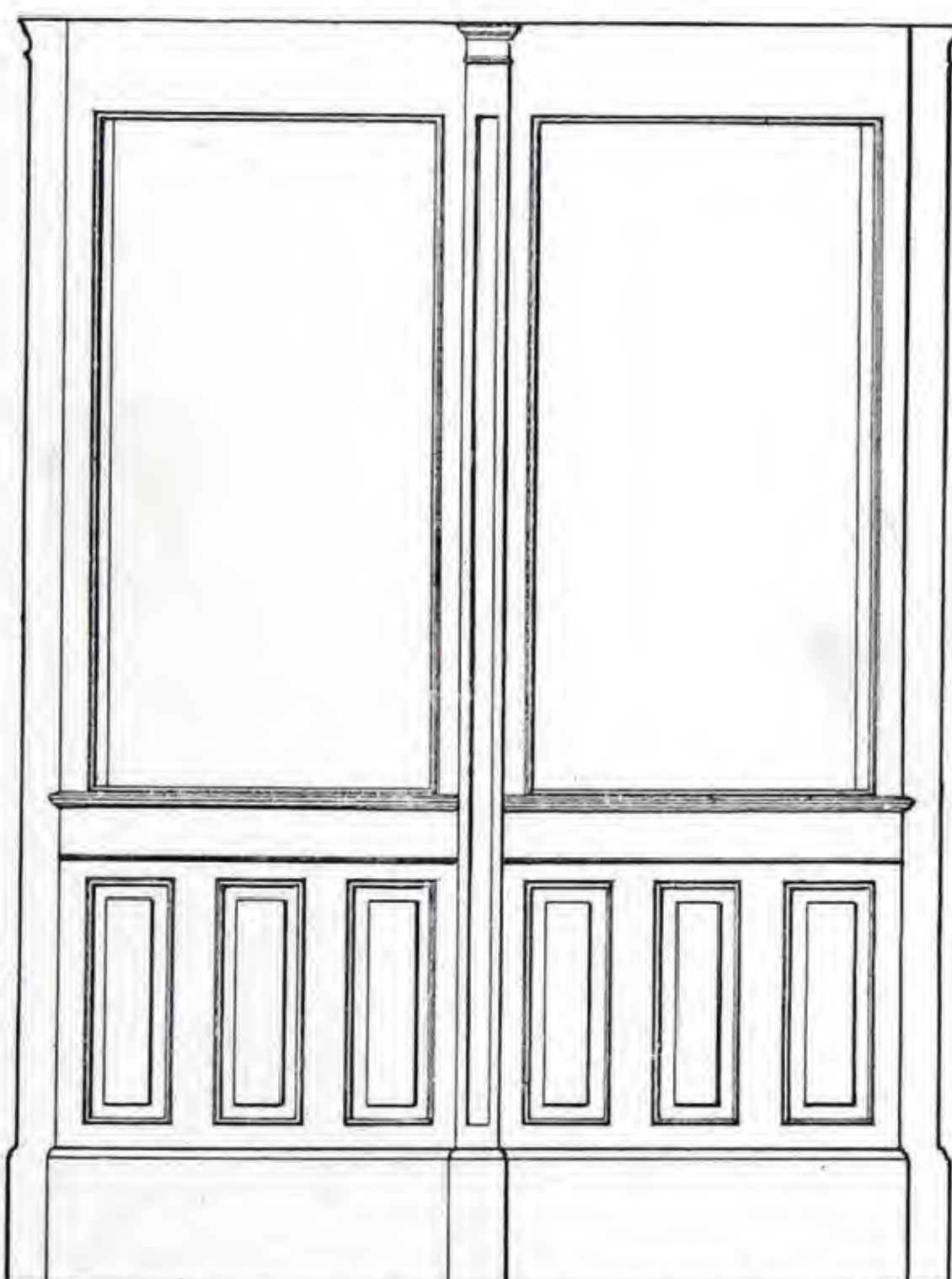
VARIOUS DESIGNS OF WALLS



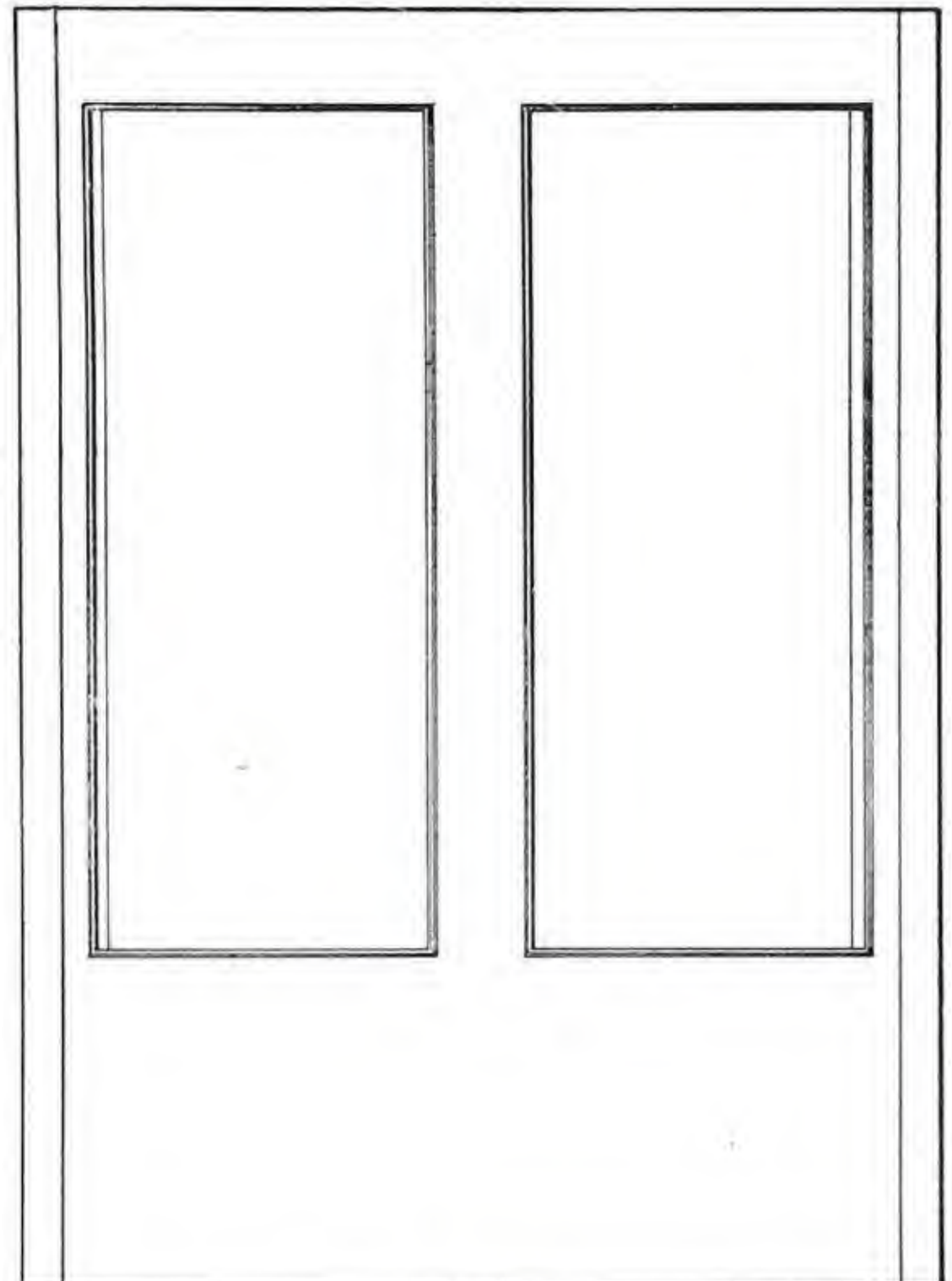
A-101



A-103



A-105



A-106

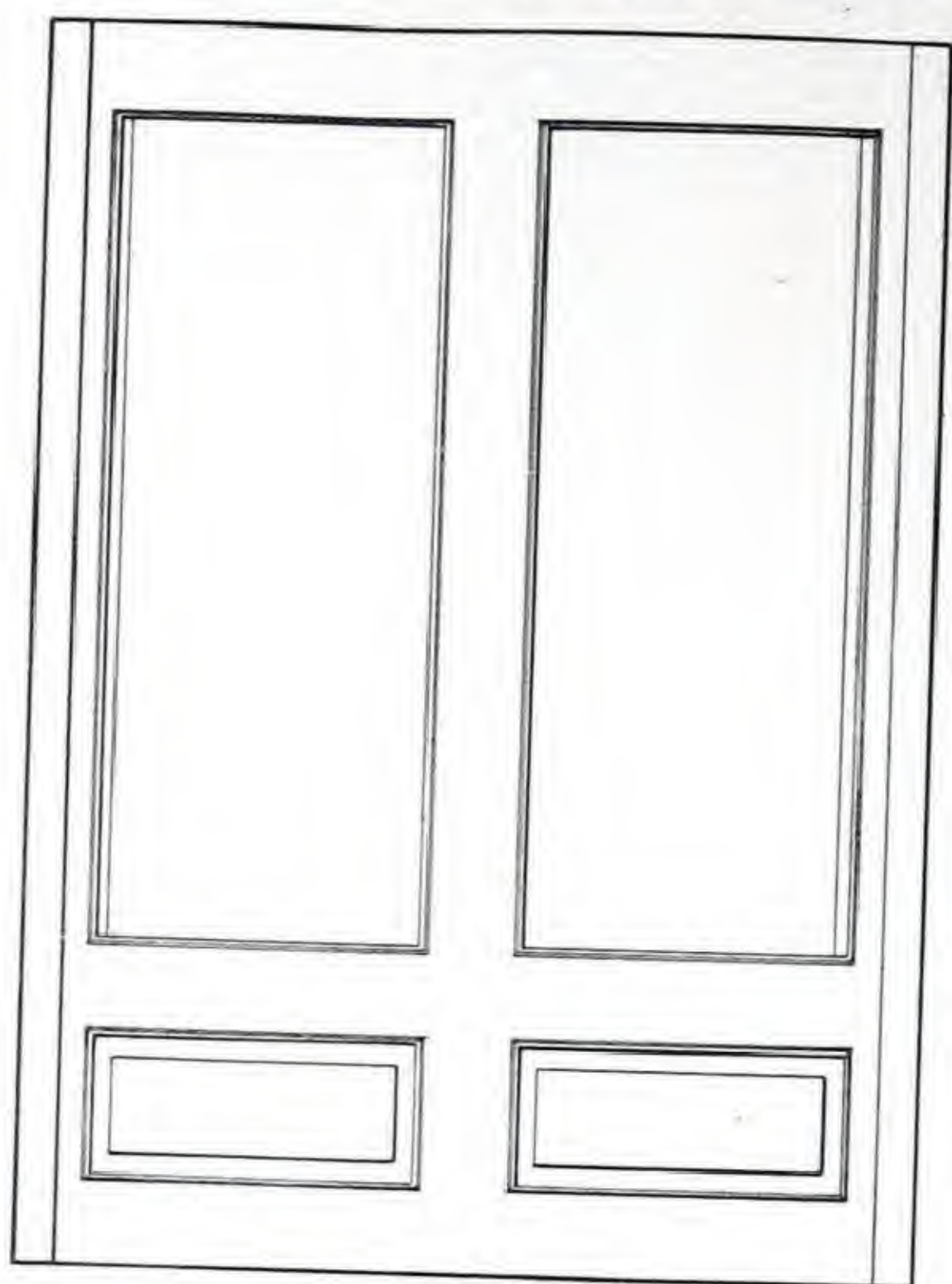
A-101 is one of our cheaper designs.

A-103 is similar to A-101, except that openings are provided for bent glass, having metal angle stops inside and wood stops outside the glass.

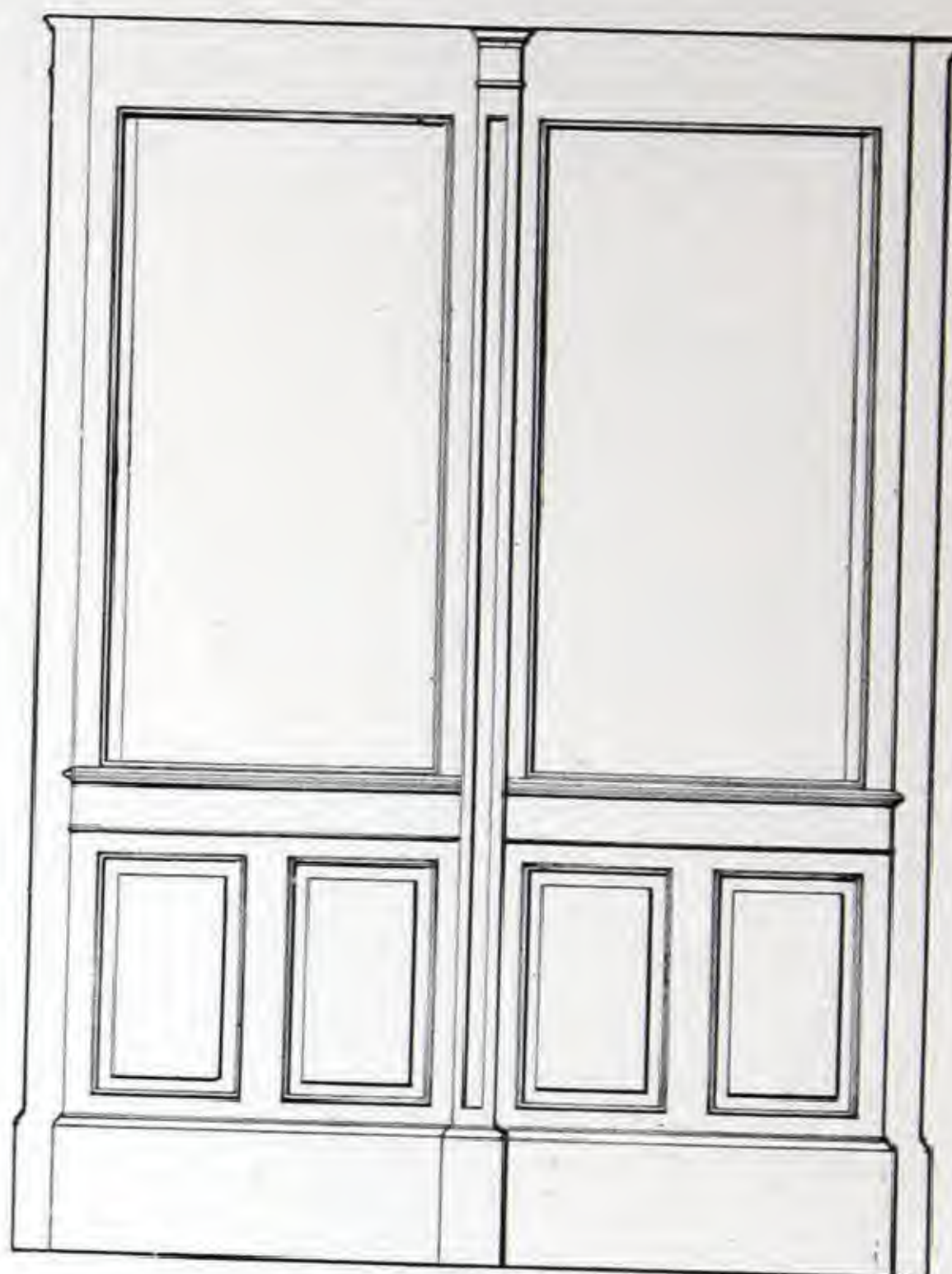
A-105 is a more elaborate design, arranged for bent glass, paneled below, cabinet made throughout.

A-106. A plain and elegant design, large bent glass.

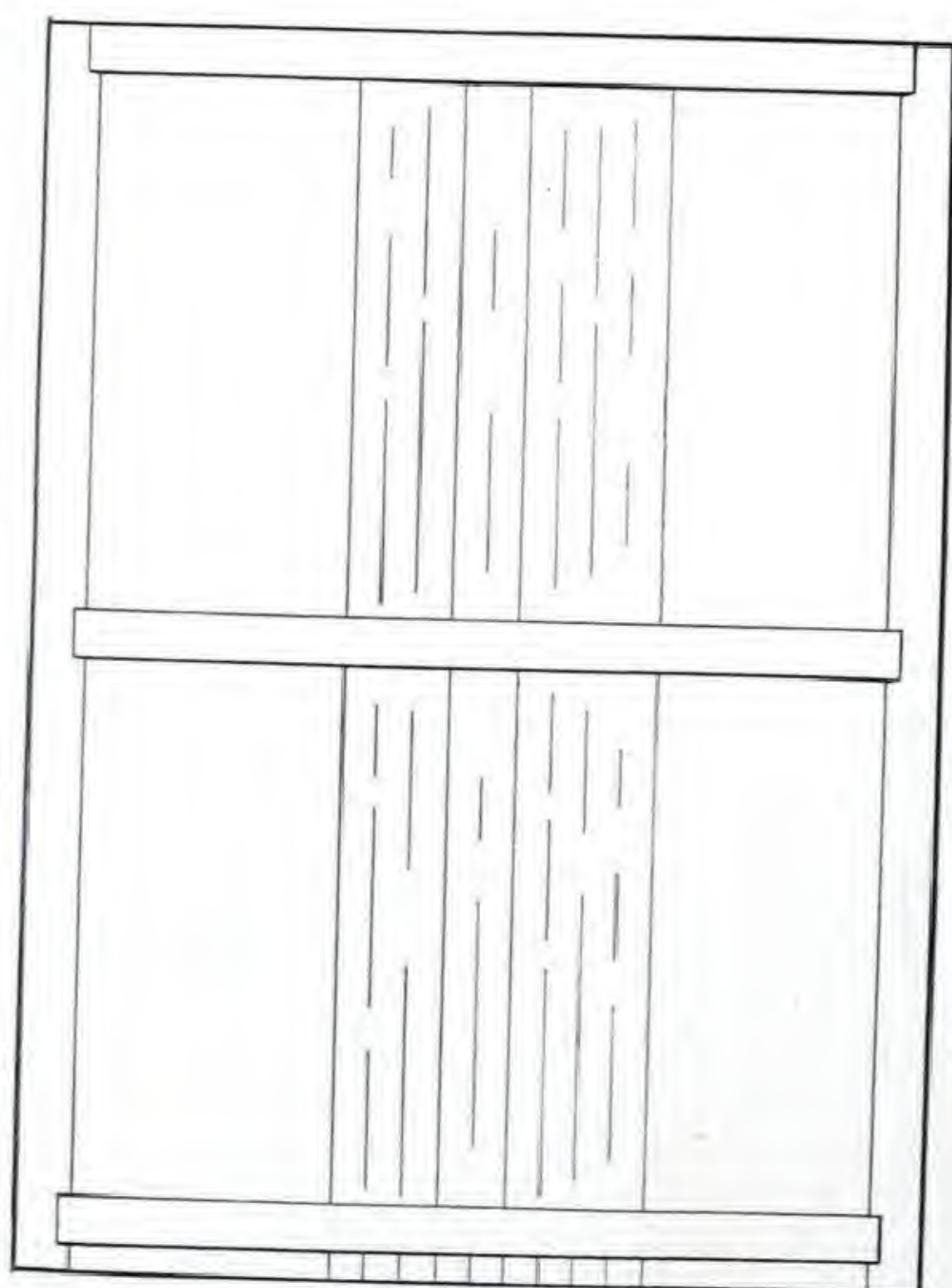
VARIOUS DESIGNS OF WALLS



A-113



A-109



A-120



A-116

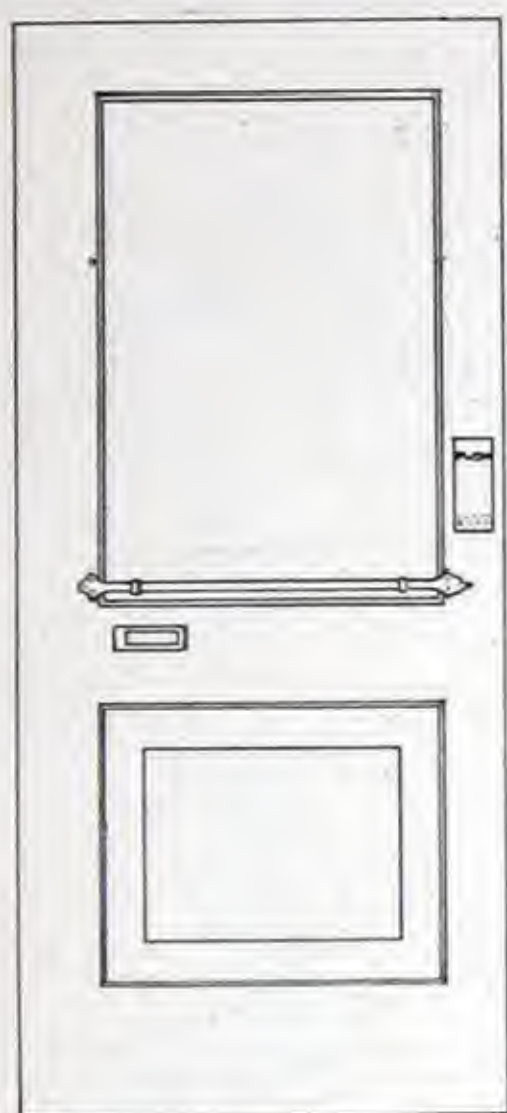
A-113. Similar to A-106, except that panels are placed below glass.

A-109. Same as A-105, except that it has two panels in each section.

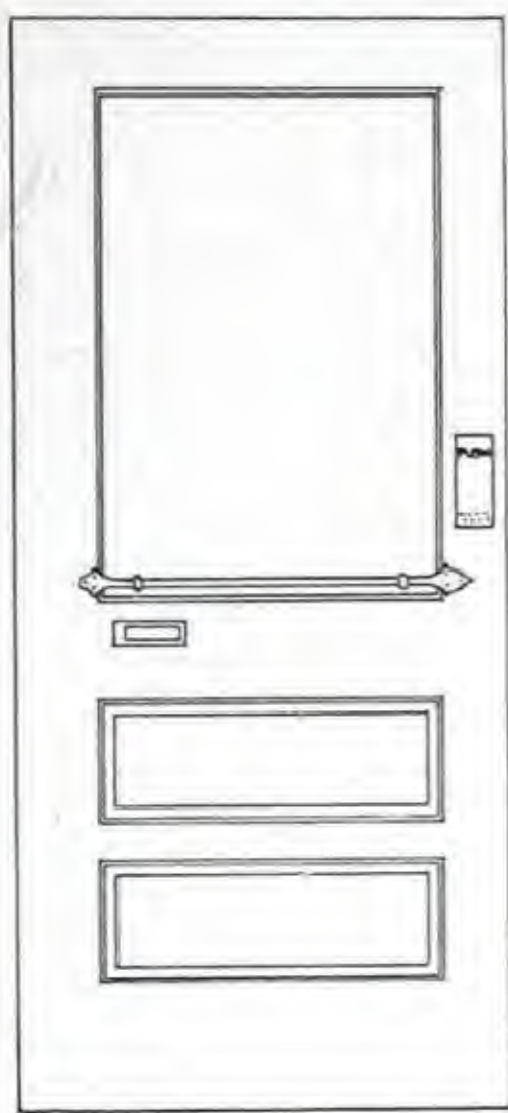
A-120. Solid wall, jointed and glued, veneered inside, the outside plain; to be used when outer surface is concealed. (See figures 208 and 213, page 44).

A-116. Walls made in sections and hinged. Central section arranged to join walls or jambs in entrance.

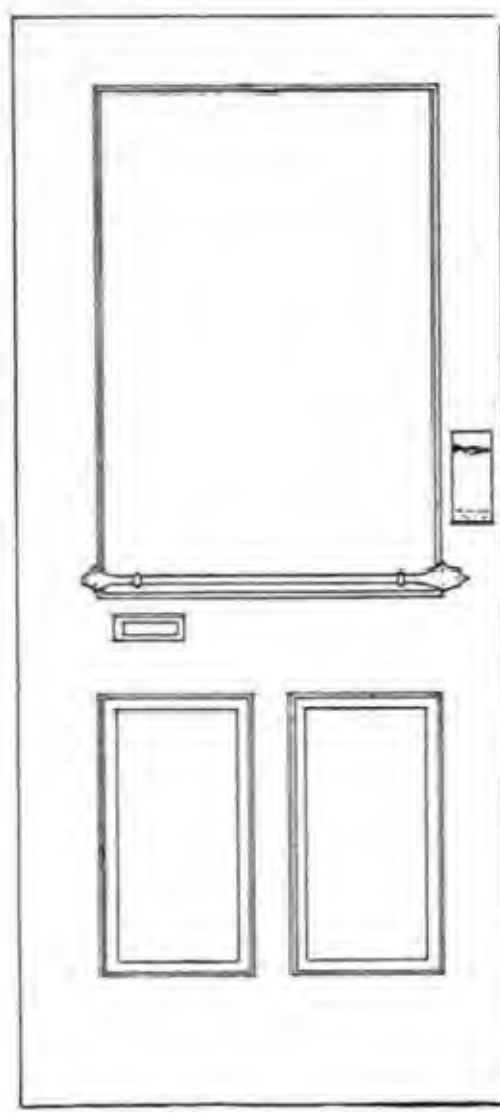
VARIOUS DESIGNS OF WINGS



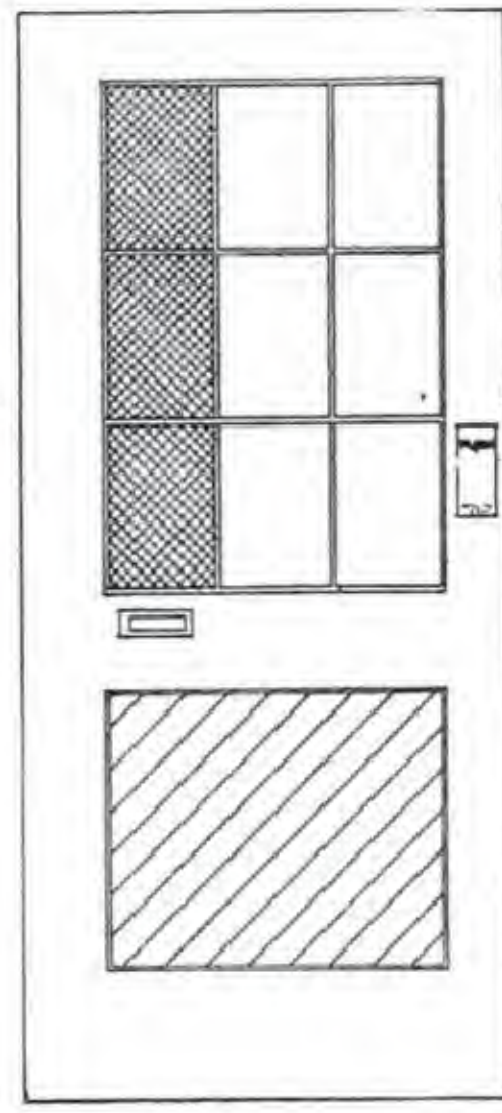
c101



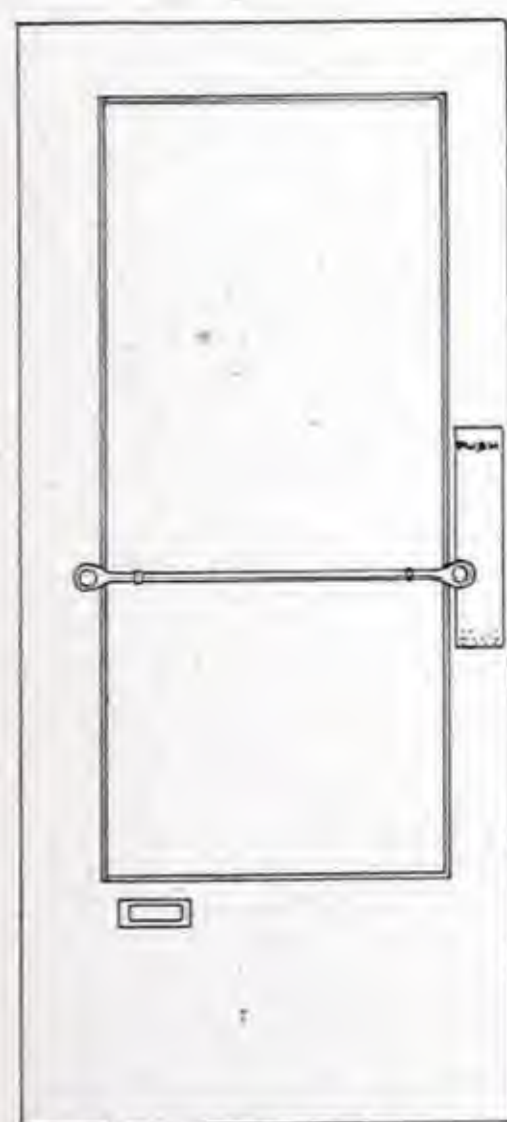
c103



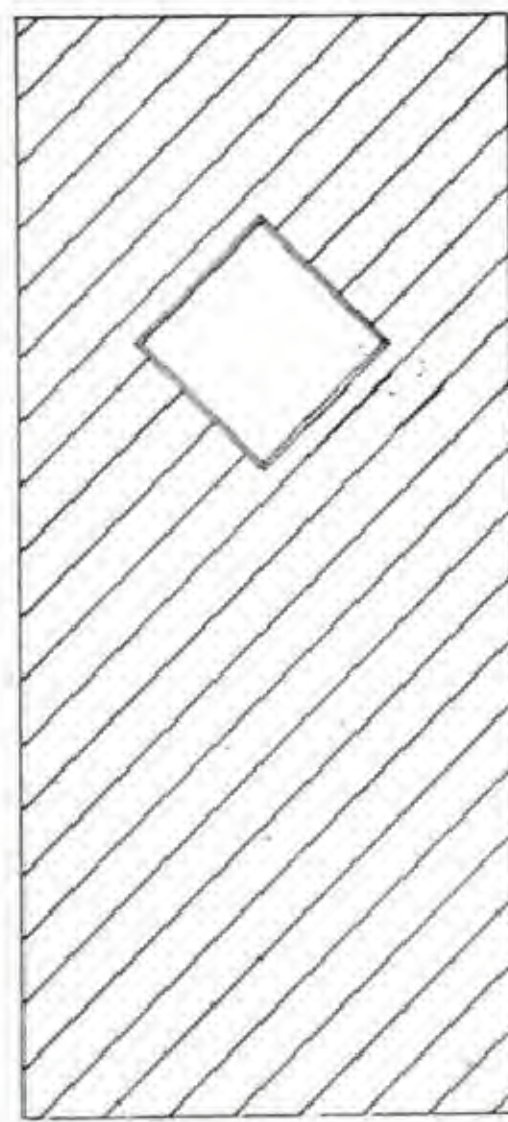
c108



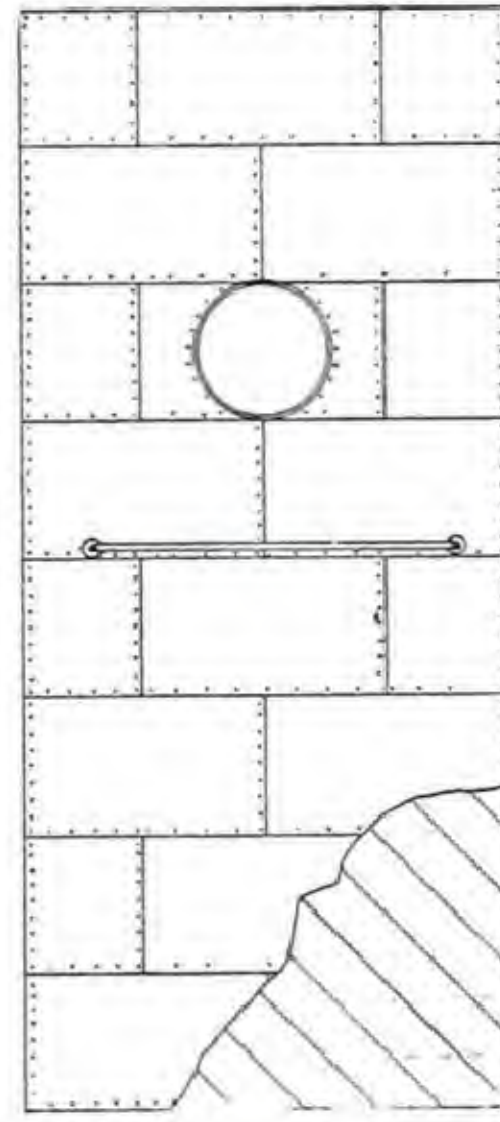
c110



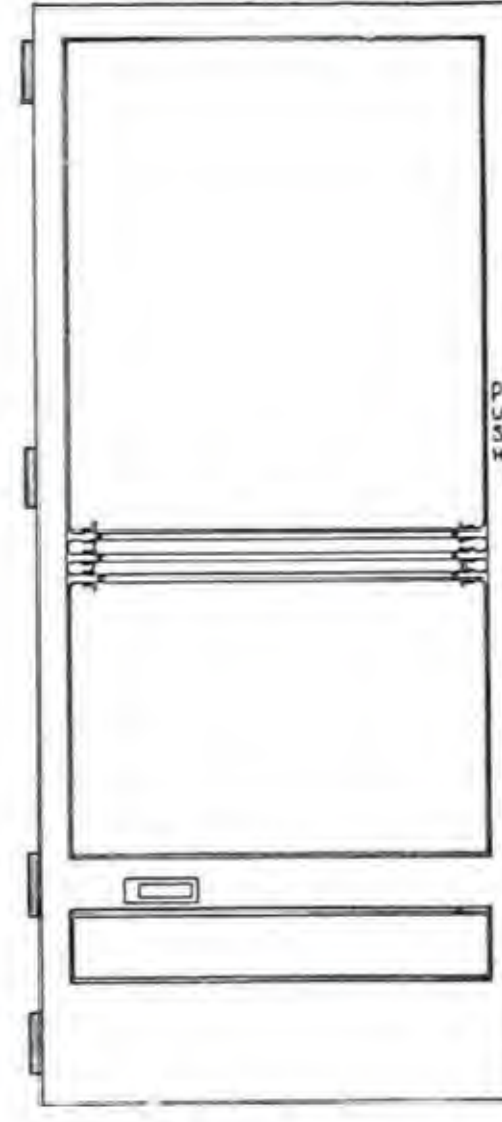
c106



c111



c112



c115 Bronze

The above designs of wings for revolving doors are selected from a large number which we make. They represent the most popular designs in general use.

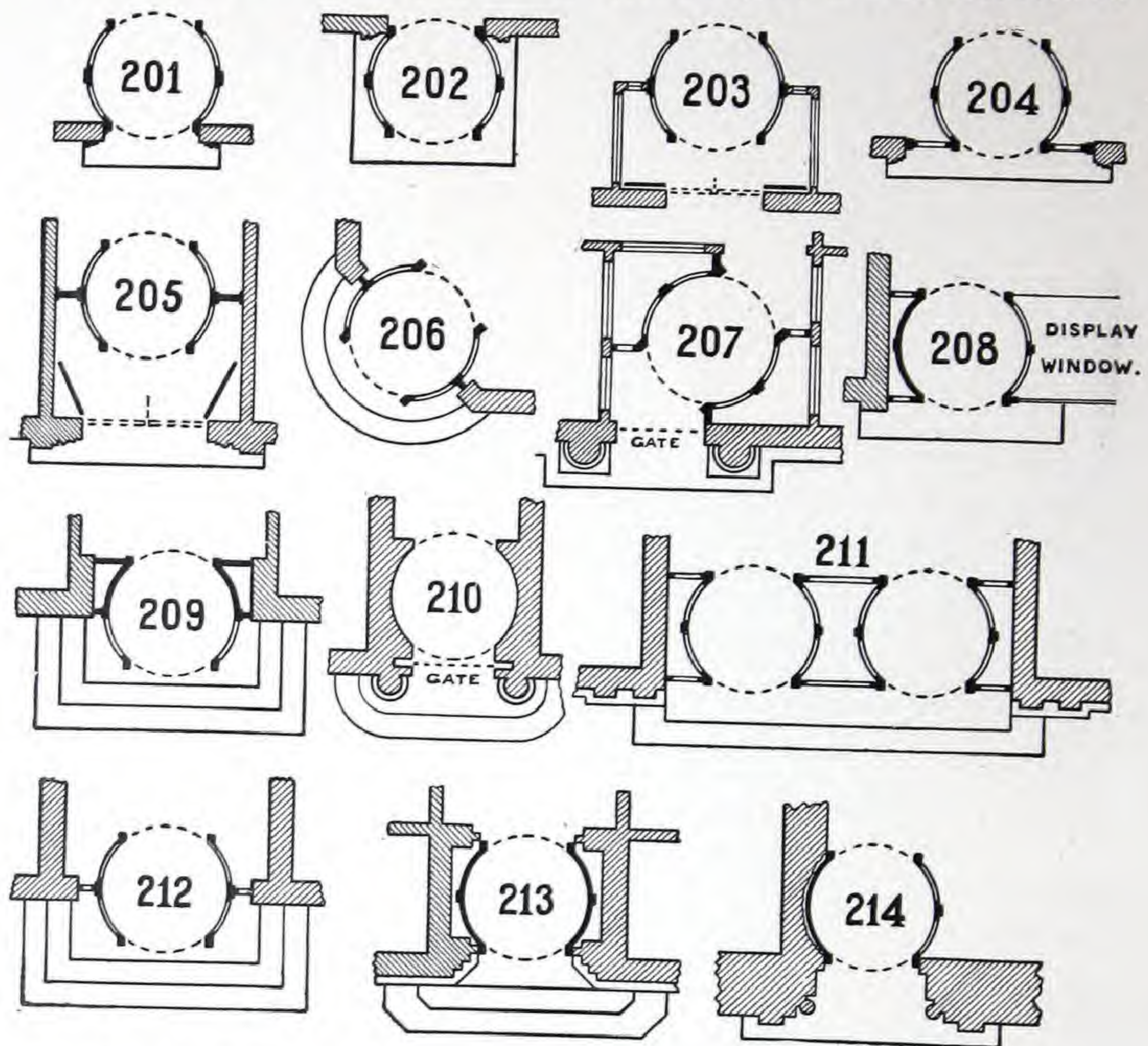
c101, c103, c106 and c108 are used mostly in revolving doors for main entrances.

c110 and c111 for factory doors.

c112 for revolving fire doors.

c115 wings made in bronze, steel or other metal.

Various Positions for Placing Revolving Doors in Entrances



- 201, Shows the door placed inside the doorway.
 202, Placed outside resting on platform, requires a roof over the structure.
 203, Joined to jambs of an interior vestibule, hinged doors in front for closing at night.
 204, A wide entrance, space filled in by two glazed panels.
 205, Revolving door set back in hallway, the old swing doors left in place.
 206, A corner entrance. Centre pilaster of curved walls joined to building jambs.

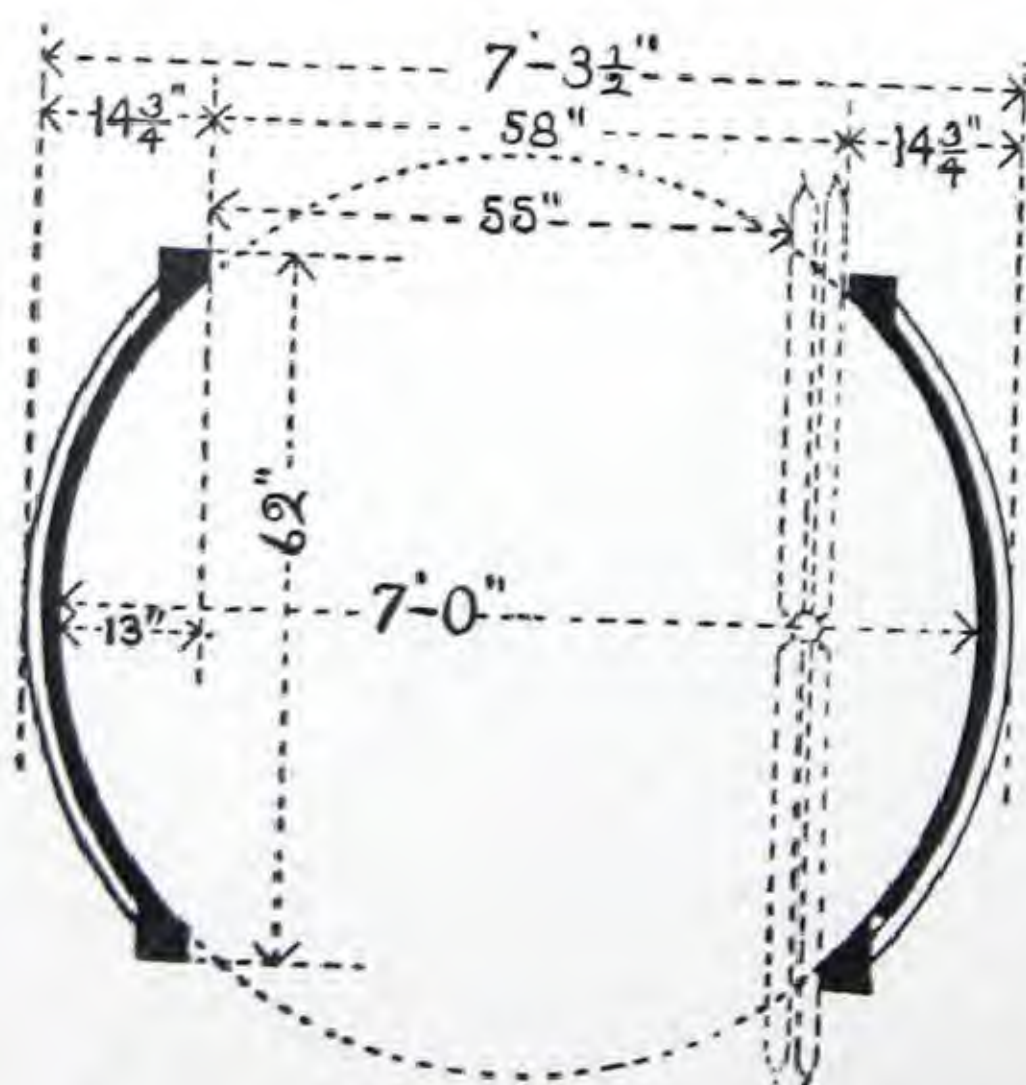


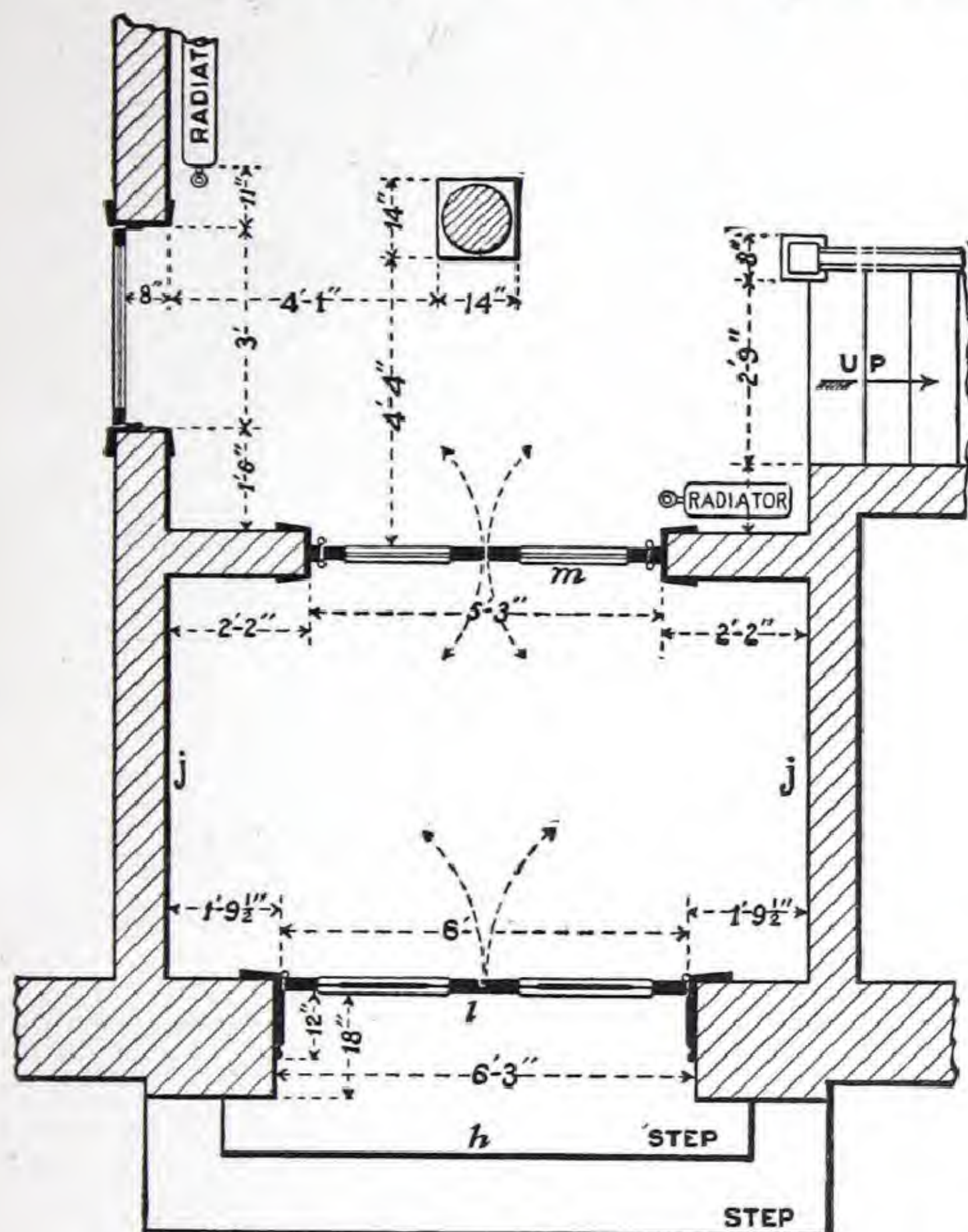
Fig. 43

- 207, A diagonal entrance. The revolving door making an excellent approach both inside and outside.
 208, Store entrance, with display window. The curved wall of the revolving door forms the glazed sash for display window. The other curved wall is made solid when placed near wall of building.
 209, Half of revolving door inside solid wall sections, other half outside, having glazed walls. Requires roof outside of transom.
 210, "Permanent Wall" revolving door (see page 26 for description) collapsible gates in pockets.
 211, Twin revolving doors. Wide entrance (about 18 feet) giving a central display case. Cornice inside and outside straight from wall to wall. An entrance of 15 feet is sufficient for two standard doors.
 212, Like 209, except that both walls are glazed.
 213, Jambs of revolving door join directly to the four jambs of the building.
 214, Shows building wall cut out to permit curved wall of revolving door being put in place, making a correct junction at front entrance.

DIRECTIONS FOR TAKING MEASUREMENTS OF STREET ENTRANCE

The following is a **Specimen Diagram** of an entrance (looking down on the floor) which is used here only as an illustration or guide in connection with questions and remarks given below.

(See page 44—How Revolving Doors are Placed in Entrances.)



1. Give distance from the doors **1** (when closed) out to first step **h** (or any variation of level) and state number of steps. Also distance between columns or other permanent objects that may be outside the entrance.

2. Distance from outer doors **1** (when closed), in to the nearest object, such as other sets of doors **m**, or counters, columns, stairs, radiators, etc.

3. Distance between door jambs, also from each jamb to the side walls j , as well as the thickness of these jambs.

4. Thickness of doors.

5. Distance from floor to transom bar.

6. Height and width of saddle or threshold above floor. State of what material saddle is made and whether it lays on top of the floor or is embedded.

7. Is the floor at doorway level? If not, what is amount of pitch per foot?
8. Is the floor of wood? If not, name the material.
9. State kind of wood and finish required for Revolving Door.
10. Send full size detail of door frame and transom bar.

In addition also:

Give name of building and the street location of each entrance;

Name of owner, agent or manager, and in whose name bid is to be made;

Class of business carried on; and other particulars of importance;

How soon will door be required.

Make diagram of entrance, write in all dimensions plainly and answer above questions fully. This will enable us to make a scale drawing of the entrance and show the revolving door in the most practicable position. We will mail the drawing with specification and estimate promptly.

Address all communications to

VAN KANNEL REVOLVING DOOR COMPANY

**Main Offices: FULLER BUILDING, B'way at 23d Street
NEW YORK CITY, N. Y.**

REVOLVING PANTRY WINDOW

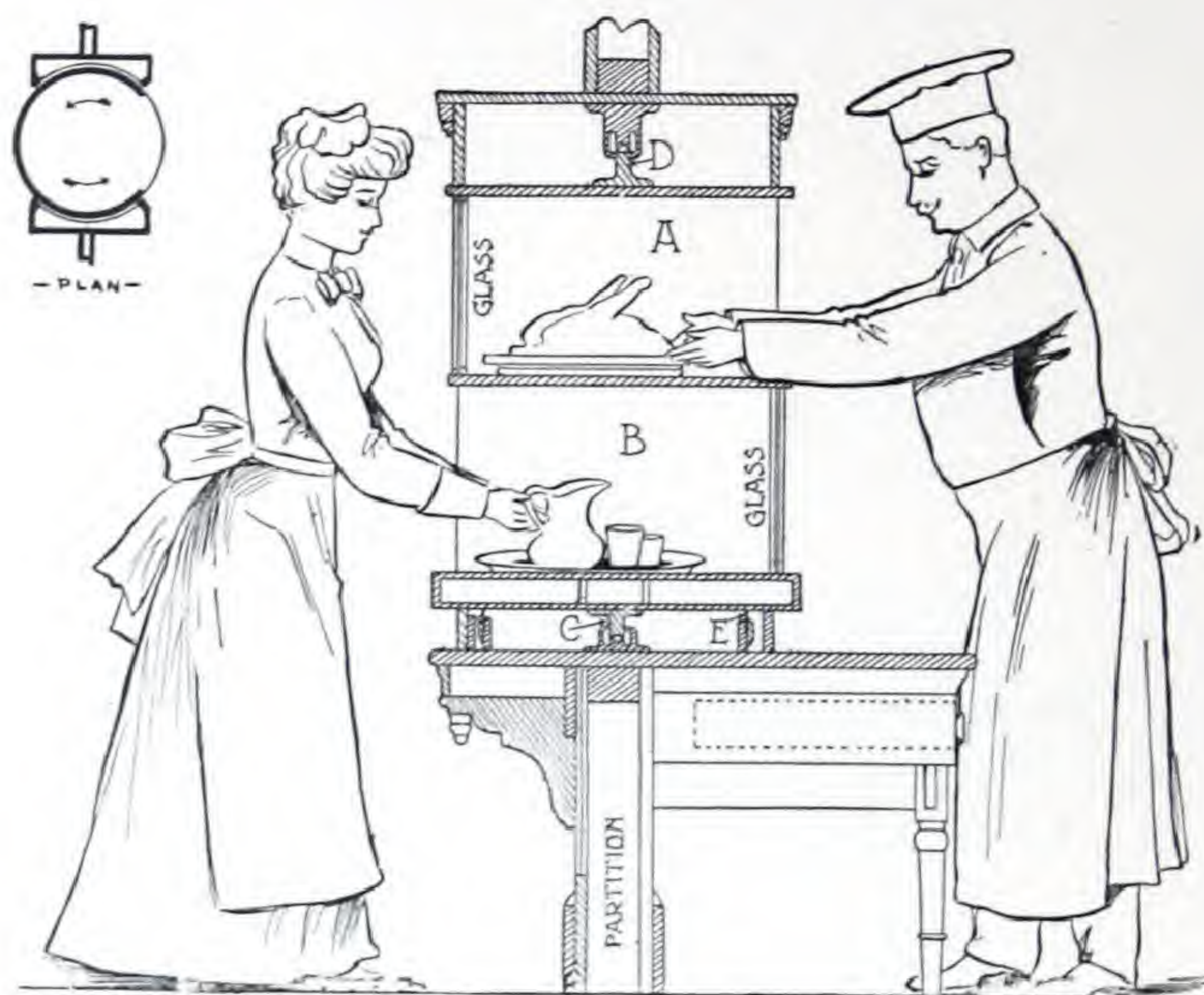


Figure 44

In dwellings, restaurants, etc., the **Revolving Pantry Window** is a desirable adjunct; it permits dishes and food to be passed easily from kitchen to dining room, at the same time prevents fumes and noise to enter the latter. It is so constructed, while dishes or other objects may be placed on or removed from the revolving table on one side, the same may be done on the other side, thus greatly increasing its capacity.

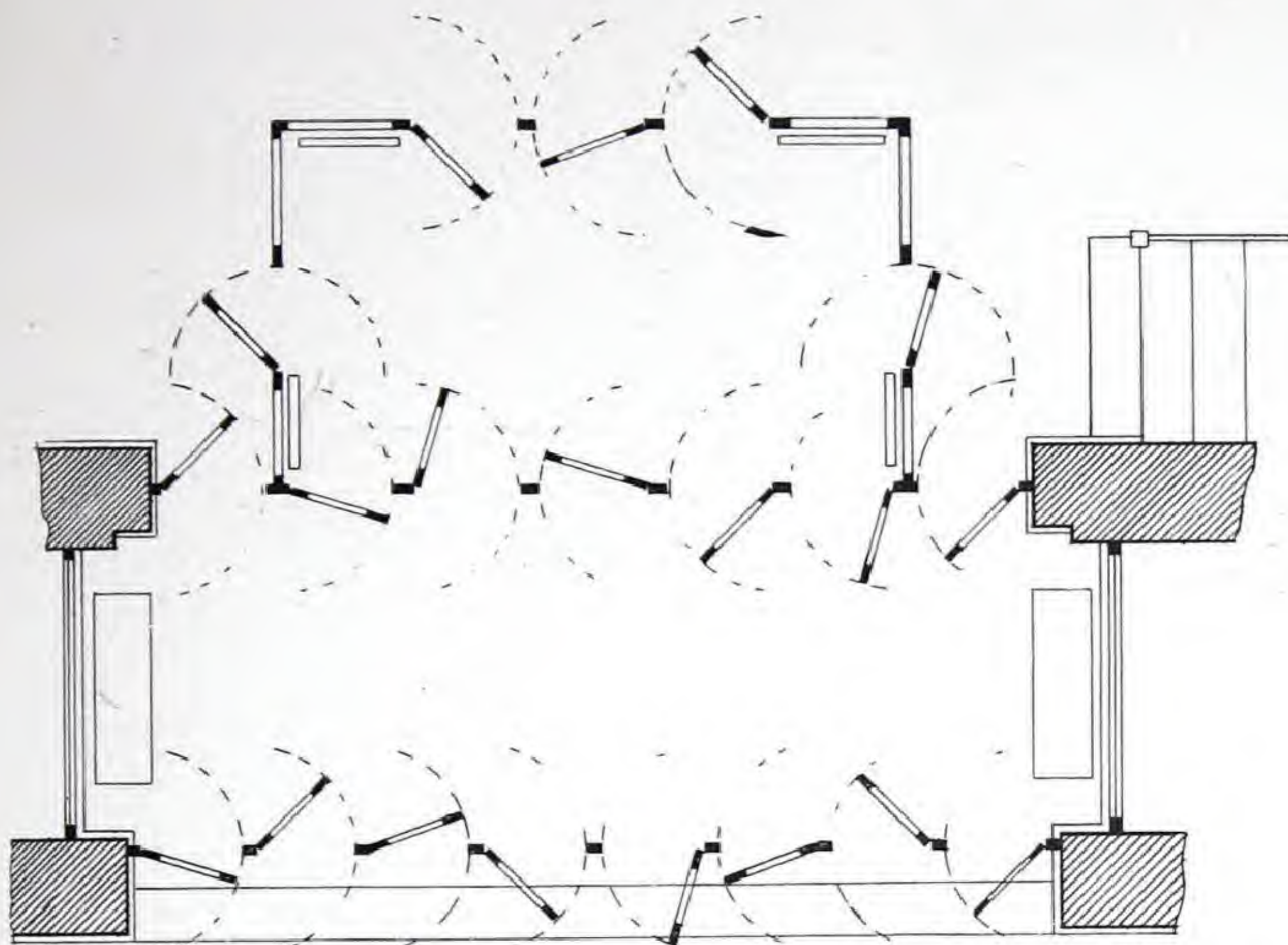
It consists of a cylinder rotating horizontally on pivots **C** and **D**. The upper section **A** of the cylinder is open to the right, while the lower section **B** is open to the left. As soon as the objects are in place, a half turn is given to the cylinder which reverses the position from the kitchen to the dining room or vice versa. A glass panel is placed at the rear of each of these sections, so that each of the attendants may see the movements of the other and determine the time to reverse the cylinder. Rubber strips **E** are placed between the working parts of the wood work to make the structure air tight.

As this device prevents the transmission of sound, it is necessary to place a speaking tube through the partition near the revolving window to enable the attendants to give or receive orders.

By a slight modification this device can be made use of for **Telegraph Offices** or **Newspaper Offices** in which it is desired to keep the noise of the telegraph instruments from the editorial rooms.

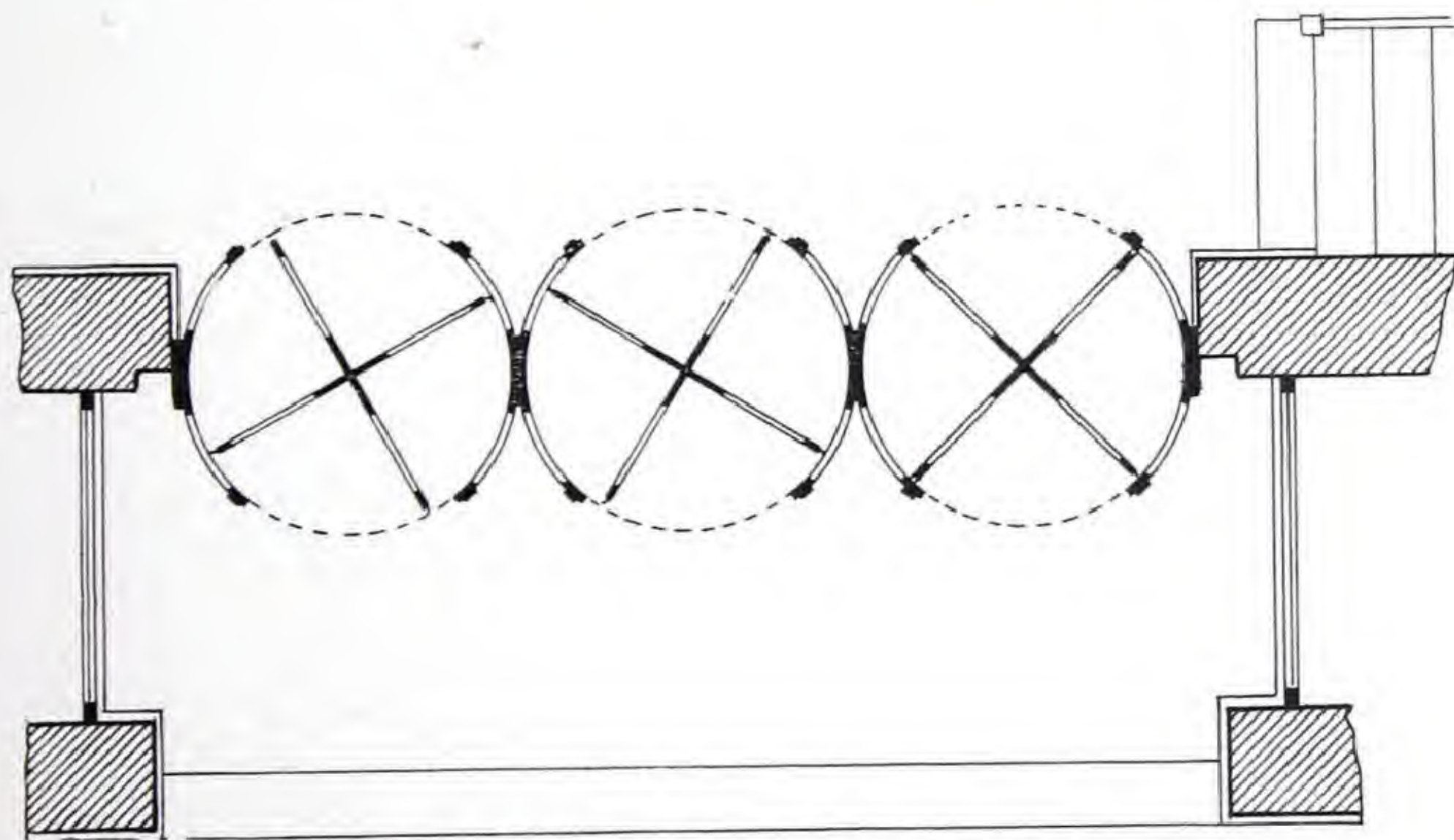
For further details and specifications address all inquiries to

Main Offices, FULLER BUILDING, B'way at 23d Street
New York City.



WASHINGTON STREET ENTRANCE

An entrance to Jordan-Marsh Co.'s store, Boston, before we got at it



WASHINGTON STREET ENTRANCE

The same entrance when we got through with it

See the space we saved?

What do you suppose the annual rental value of the space saved is worth?

We changed all the entrances of the Jordan-Marsh store.

We are helping others to save space and money—why not let us assist you?

A letter of inquiry will receive prompt attention.

Address all communications to

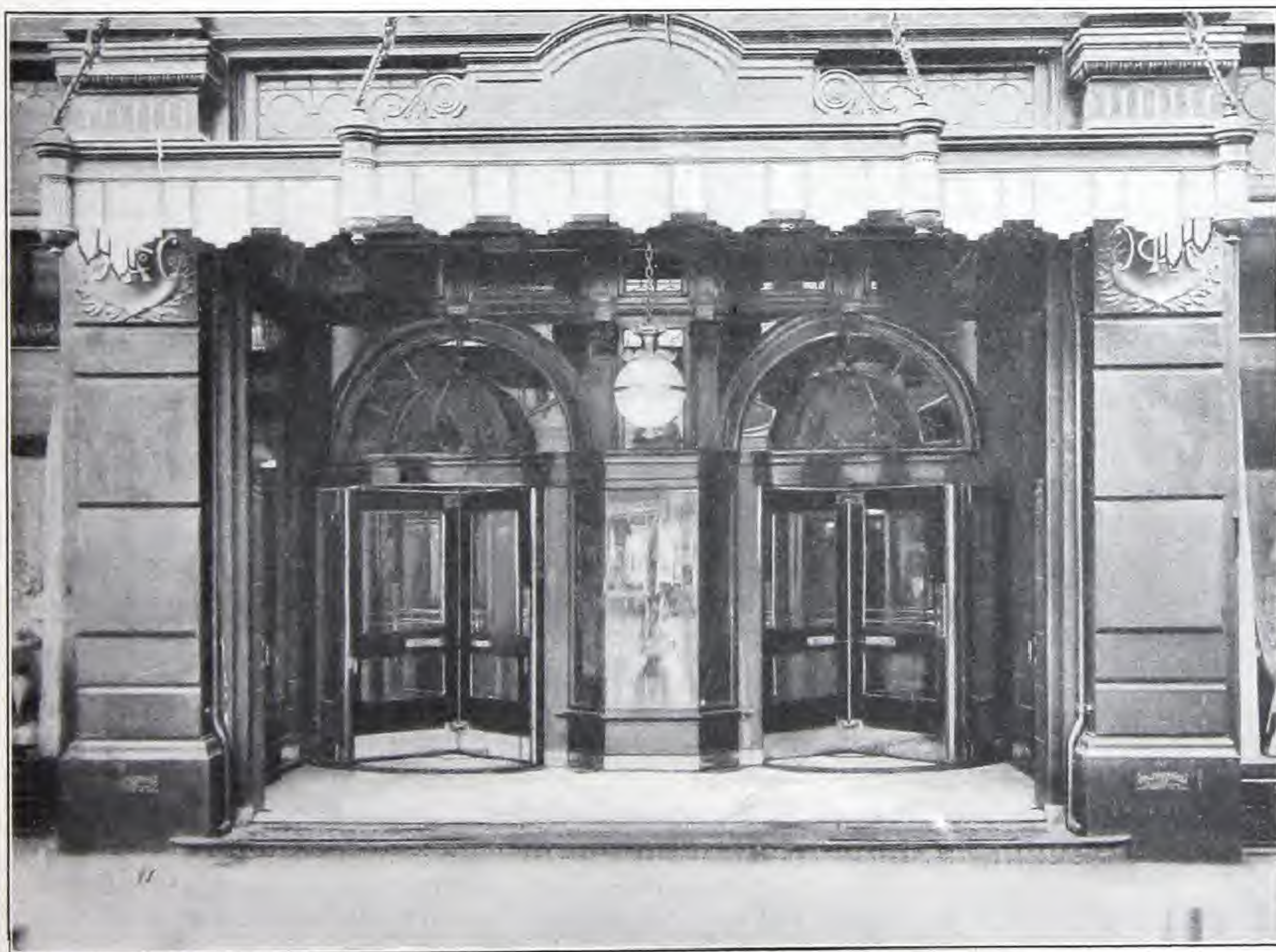
General Offices, FULLER BUILDING, Broadway at 23d Street
New York City



HOTEL MARTINIQUE, NEW YORK CITY



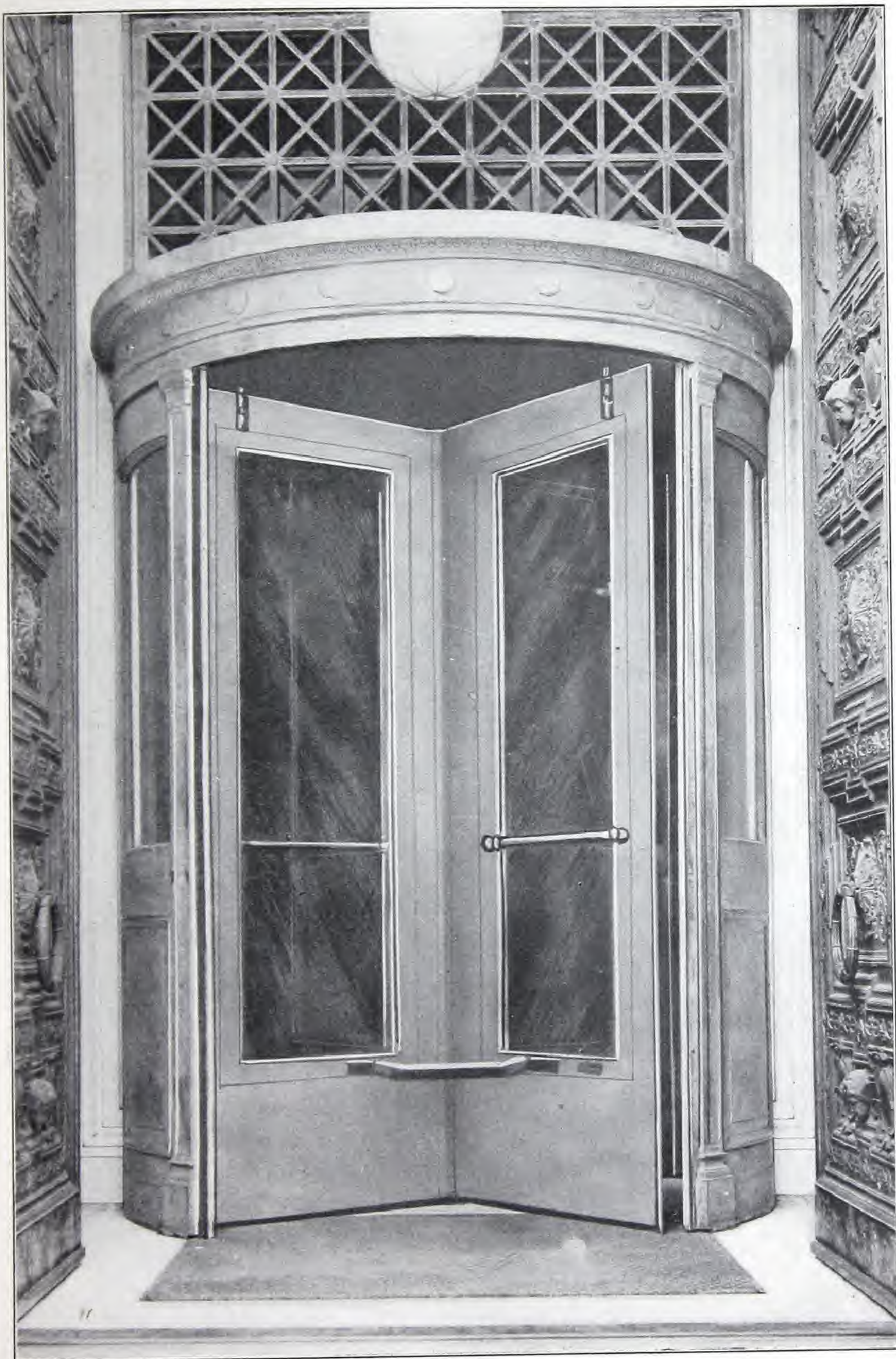
KINSELLA APARTMENT HOUSE, NEW YORK CITY



KOCH DEPARTMENT STORE, NEW YORK CITY



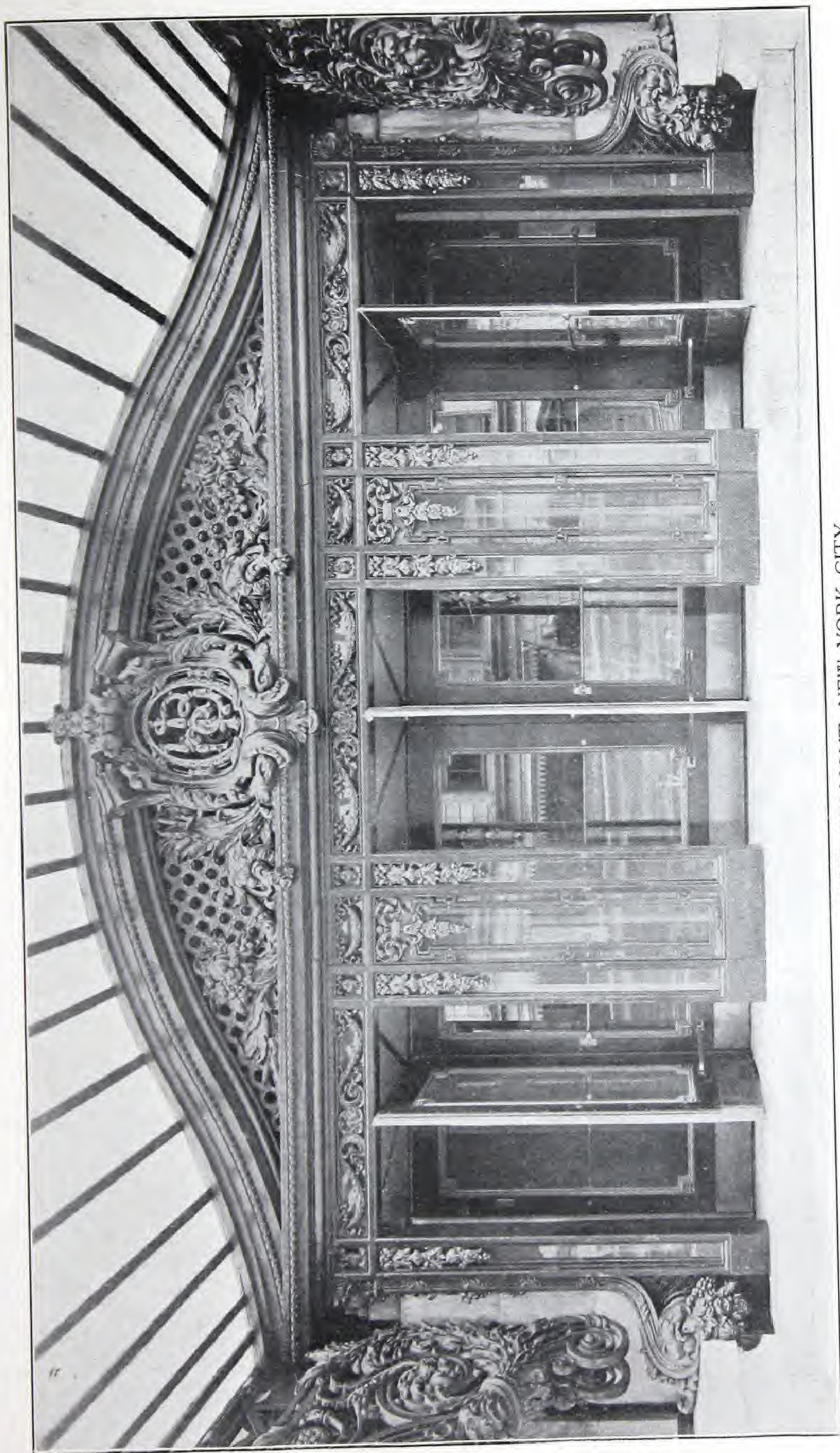
WELLS FARGO OFFICE BUILDING, NEW YORK CITY



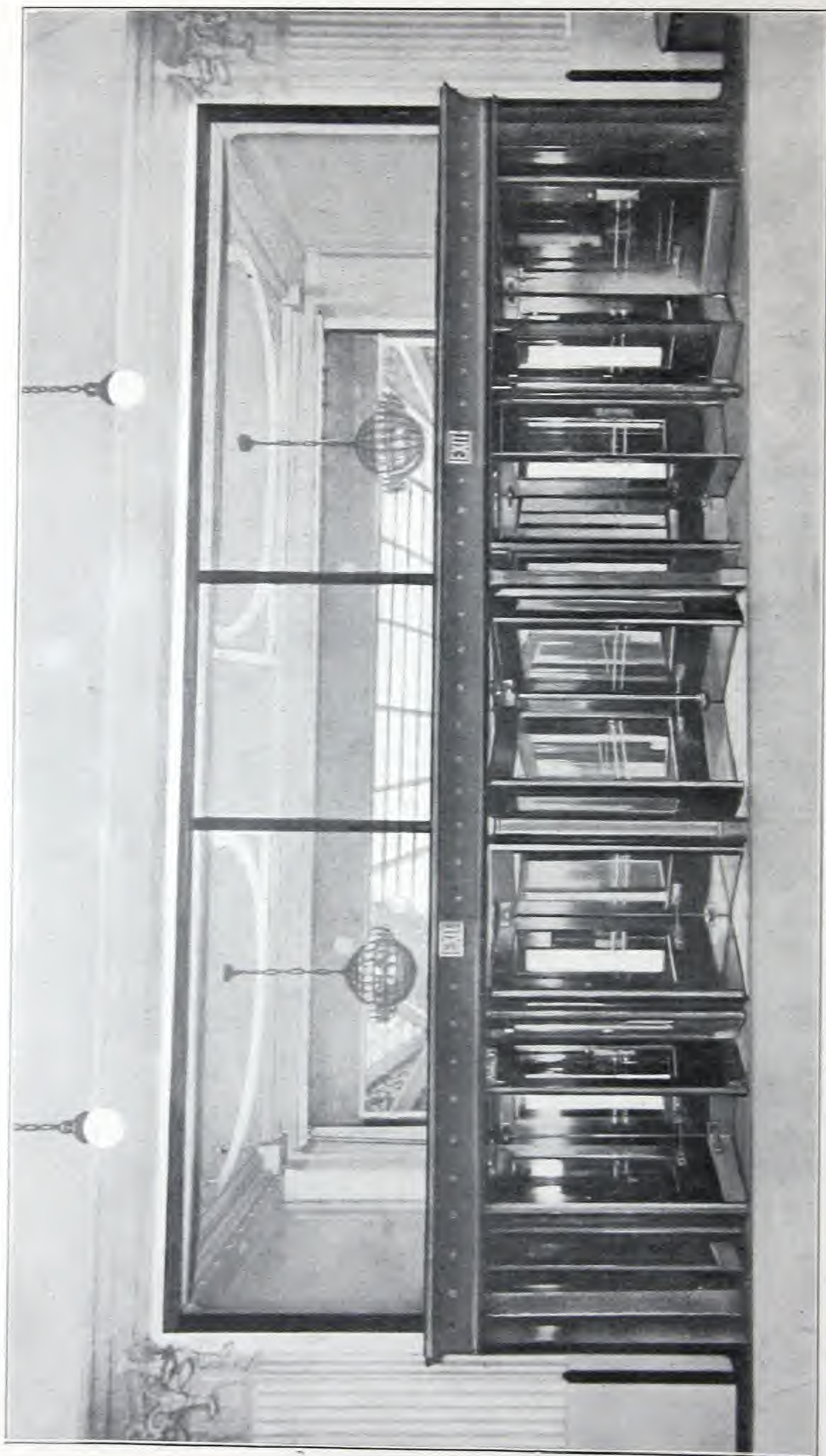
KNICKERBOCKER TRUST CO., NEW YORK CITY



HOTEL ST. REGIS, NEW YORK CITY



HOTEL BELMONT, NEW YORK CITY



MARSHALL FIELD CO., CHICAGO



METROPOLITAN LIFE BUILDING, 23d Street and Madison Avenue, NEW YORK



BLACKSTONE HOTEL, CHICAGO

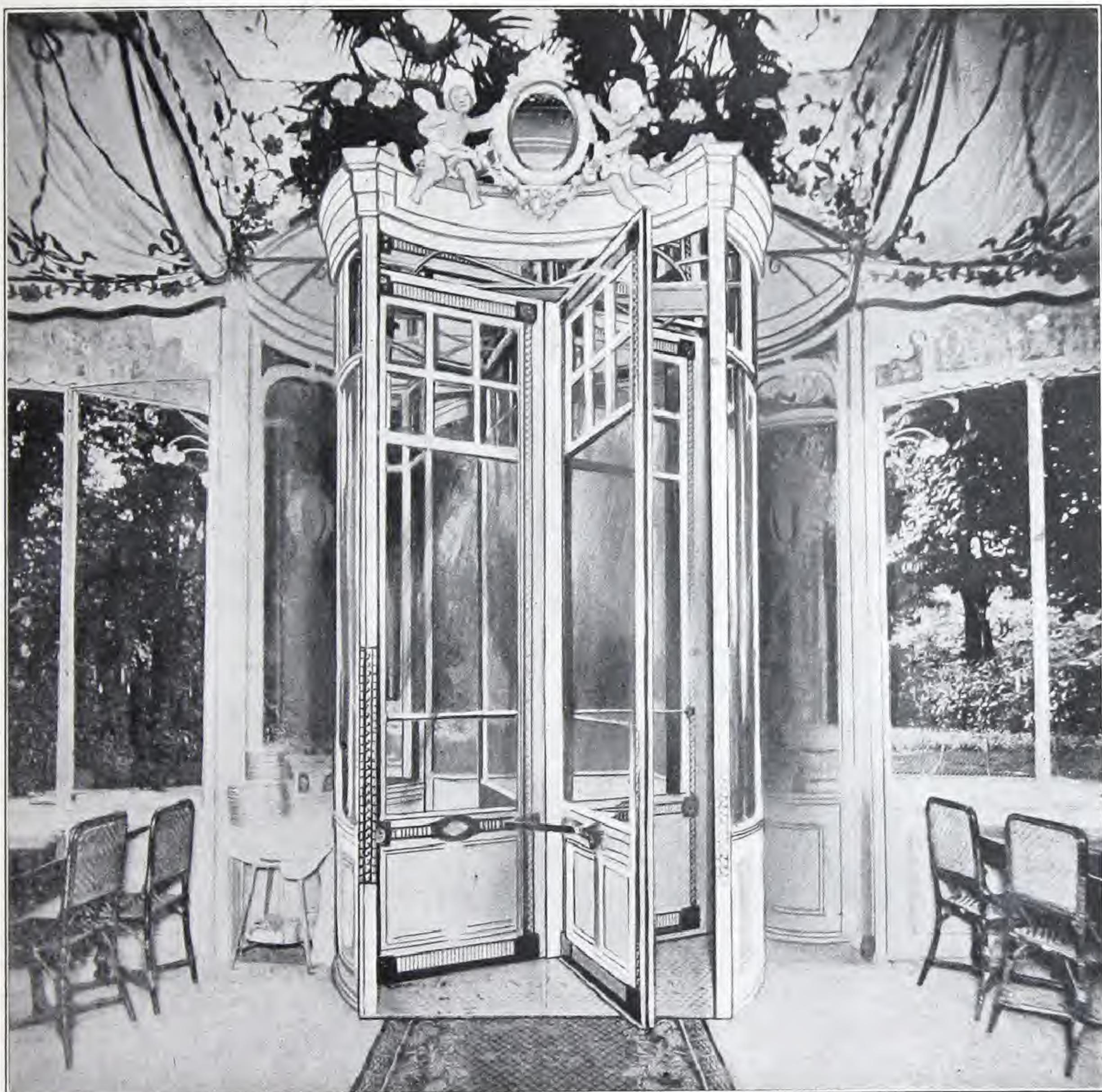
FRENCH TYPE REVOLVING DOOR
"Porte De Grand Lux"



The above engraving represents a beautiful example of French style and taste applied to the Revolving Door. The structure was designed by the eminent French architect, A. Sibien and installed by our European Manager in the Hotel Regina, 2 Place Rivoli, Paris.

Glass in ceiling, and spherically bent glass in dome, all lighted by electricity.

By adopting the Revolving Door, the Architect was enabled to depart entirely from the usual forms of Hotel entrances. The result has been a most happy one from the standpoint of elegance, comfort, convenience and economy of space. The Revolving Door now has universal approval and admiration, not only from the visiting public, but from the architects, hotel proprietors and experts in buildings of this character.



FRENCH RESTAURANT, PARIS

This illustration gives a very good idea of a treatment for interior Air Locked Revolving Doors.

ABRIDGED LIST OF Buildings Equipped with Revolving Doors

Office Buildings

American Surety Building.....	N. Y. City	N. Y. & N. J. Telephone Co.....	Brooklyn, N. Y.
American Tract Society Bldg.....	"	Edison Electric Co.....	"
Bank of Commerce Building.....	"	Am. Express Bldg.....	Buffalo, N. Y.
Barclay Bldg.....	"	Buffalo Ger. Ins. Bldg.....	"
Bldg., 15-29 Madison Sq.....	"	Morgan Building.....	"
Bldg., 18th St. & 4th Ave.....	"	Y. M. C. A. Bldg.....	"
Bldg., 31st St. & Fifth Ave.....	"	Butler Bldg.....	Chicago, Ill.
Borden Bldg.....	"	Hearst Bldg.....	"
Bourne Building.....	"	Commonwealth Edison Bldg.....	"
Broadway Chambers.....	"	Meyer Est. Bldg.....	"
Bryant Bldg.....	"	Oxford Bldg.....	"
Butterick Bldg.....	"	Pullman Bldg.....	"
Commercial Cable Bldg.....	"	Unity Bldg.....	"
Consolidated Dental Co.....	"	Wilson Bros. Bldg.....	"
Dun Building.....	"	Hibbard, Spencer, Bartlett Co.....	"
Exchange Court.....	"	Ingalls Bldg.....	Cincinnati, O.
Factory Bldg., Hudson St.....	"	Citizens' Sav. and Loan Bldg.....	Cleveland, O.
Fidelity & Casualty Bldg.....	"	Cleveland Telephone Co.....	"
Fuller Bldg.....	"	Garfield Building.....	"
Gerken Building.....	"	Hickox Bldg.....	"
Gill Building.....	"	New England Building.....	"
Hamilton Storage Warehouse Co.....	"	Williamson Building.....	"
Haviland Bldg.....	"	Schofield Bldg.....	"
Home Ins. Co.....	"	Board of Trade Building.....	Columbus, O.
Hudson Terminal.....	"	Hartman Bldg.....	"
Hyde Bldg.....	"	Conover Bldg.....	Dayton, O.
Jewelers Court.....	"	Reibold Bldg.....	"
Knickerbocker Theater.....	"	Majestic Building.....	Detroit, Mich.
Kuhn, Loeb & Co. Bldg.....	"	Newberry Building.....	"
Manhattan Life Building.....	"	Equitable Bldg.....	Denver, Colo.
Mercantile Bldg.....	"	First Nat. Bank Building.....	Duluth, Minn.
Merchants' Exchange Bldg.....	"	Torrey Building.....	"
Met. Commercial Bldg.....	"	Exchange Building.....	"
Met. Life Bldg., P. O. Ent.....	"	Lonesdale Building.....	"
Metropolitan Life Bldg.....	"	Paterson Bldg.....	Flint, Mich.
Mutual Reserve Building.....	"	American Bridge Co. Bldg.....	Gary, Ind.
N. Y. Clipper Building.....	"	Mich. Trust Bldg.....	Grand Rapids, Mich.
N. Y. Edison.....	"	Tod Office Building.....	Great Falls, Mont.
N. Y. Edison Bldg.....	"	Stackpole Bldg.....	Harrisburg, Pa.
N. Y. Stock Exchange.....	"	Aetna Life Ins. Bldg.....	Hartford, Conn.
N. Y. Telephone Bldg.....	"	Conn. Mut. Ins. Bldg.....	"
N. Y. World Building.....	"	Heublein Bldg.....	"
N. Y. Life Ins. Building.....	"	Colegates Bldg.....	Jersey City, N. J.
Postal Telegraph Building.....	"	Board of Trade Bldg.....	Kansas City, Mo.
Queen Insurance Co.....	"	Postal Telegraph Bldg.....	"
Royal Bldg.....	"	Columbia Building.....	Louisville, Ky.
Standard Oil Bldg.....	"	Todd Bldg.....	"
Singer Building.....	"	Neustadt Bldg.....	La Salle, Ill.
St. James Bldg.....	"	Stern Bldg.....	Lynn, Mass.
St. Paul Building.....	"	Exchange Bldg.....	Memphis, Tenn.
Temple Court.....	"	Gender & Parschke Bldg.....	Milwaukee, Wis.
Tribune Building.....	"	Milwaukee Gas Co.....	"
Trinity Bldg.....	"	Natatorium Bldg.....	"
Union Trust Building.....	"	Andrus Building.....	Minneapolis, Minn.
U. S. Realty Bldg.....	"	Boston Block.....	"
Wall Street Exchange Bldg.....	"	Century Building.....	"
Washington Life Building.....	"	Corn Exchange.....	"
Wells Fargo Bldg.....	"	Dayton Building.....	"
Whitehall Bldg.....	"	Flour Exchange.....	"
Williamsburg Trust Co. Bldg.....	"	Guaranty Loan Bldg.....	"
Wills Bldg.....	"	Northwestern Bldg.....	"
Woodbridge Bldg.....	"	N. Y. Life Bldg.....	"
54-62 West 21st St. Bldg.....	"	Phoenix Building.....	"
122-4 Fifth Ave. Bldg.....	"	Syndicate Block.....	"
Century Bldg.....	Atlanta, Ga.	Telephone Bldg.....	"
Empire.....	"	Temple Court Bldg.....	"
Prudential.....	"	Prudential Ins. Co. Bldg.....	Newark, N. J.
Peters Land & Bldg. Co.....	"	Newark Gas Co.....	"
Calvert Building.....	Baltimore, Md.	Prudential Bldg.....	"
L. L. Jackson Bldg.....	"	Mutual Benefit Life Ins. Bldg.....	"
Post Tavern Bldg.....	Battle Creek, Mich.	Telephone Bldg.....	"
O'Neil Block.....	Binghamton, N. Y.	Firemen's Ins. Bldg.....	"
Boston Theater.....	Boston, Mass.	Gluck Bldg.....	Niagara Falls, N. Y.
Lawrence Bldg.....	"	Stock Exchange.....	Omaha, Neb.
American Congregational Bldg.,	"	Nertney Bldg.....	Ottawa, Ill.

VAN KANNEL REVOLVING DOOR COMPANY

Office Buildings—Continued

Acme Tea Co. Bldg.....	Philadelphia, Pa.	Mills Bldg.....	San Francisco, Cal
Girard Bank Bldg.....	"	Hearst Bldg.....	"
Real Estate Trust Bldg.....	"	Schilling Bldg.....	"
Mariner & Merchant Bldg....	"	Wells Fargo Bldg.....	"
North American Building....	"	General Electric Bldg.....	Schenectady, N. Y.
Arrott Bldg.....	Pittsburg, Pa.	Connell Building.....	Scranton, Pa.
Bakewell Law Building.....	"	Millei Bldg.....	"
Bank for Savings Bldg.....	"	D. L. & W. Office & Storage Bldg	"
Carnegie Building.....	"	Security Bank Building.....	Sioux City, Ia.
Empire Building.....	"	American Optical Co. Bldg..	Southbridge, Mass.
Frick Bldg.....	"	Carlton Building.....	St. Louis, Mo.
Keystone Bldg.....	"	Baltimore Block.....	St. Paul, Minn.
Mellon Bank Bldg.....	"	Shepard Bldg.....	"
Monongahela Coal and Coke Co.	"	Oppenheim Bldg.....	"
Building.....	"	Hackney Bldg.....	"
Oliver Bldg.....	"	Tri-State Telephone Co.....	"
Penn Bldg.....	"	Endicott Arcade.....	"
People's Bank Bldg.....	"	Germania Life Building.....	"
Phila. Co. Bldg.....	"	Kendrick Block.....	"
Tradesman's Bank Bldg.....	"	Lowry Building.....	"
Tradesman's Bank.....	"	Manhattan Building.....	"
Westinghouse Air Brake Co.....	"	N. Y. Life Building.....	"
Westinghouse Building.....	"	Odeon Building.....	"
Western Union Tel. Co.....	"	Phoenix Building.....	"
Mutual Trust Co. Bldg.....	Portchester, N. Y.	Washburn Building.....	"
Butler Exchange.....	Providence, R. I.	Kirk Block.....	Syracuse, N. Y.
Bannigan Building.....	"	University Block.....	"
Wilder Building.....	Rochester, N. Y.	Nasby Building.....	Toledo, O.
Elwanger & Berry Bldg.....	"	Mercantile & Office Block..	Traverse City, Mich.
Powers Building.....	"	Atlantic Bldg.....	Washington, D. C.
Wm. Brown Building.....	Rockford, Ill.	Anson Mills Bldg.....	"
Dooley Bldg.....	Salt Lake City, Utah	Flower Building.....	Watertown, N. Y.
Claus Sprecke's Bldg.....	San Francisco, Cal.	Tinsman Bldg.....	Williamsport, Pa.
Hale Bros.....	"	State Mutual Bldg.....	Worcester, Mass.
Crossby Bldg.....	"		

Hotels

Athens Hotel.....	N. Y. City	Parker House.....	Boston, Mass.
Belleclaire Hotel.....	"	Puritan Hotel.....	"
Buckingham Hotel.....	"	Thorndyke Hotel.....	"
Chelsea Hotel.....	"	Young's Hotel.....	"
Endicott Hotel.....	"	Hotel Bossert.....	Brooklyn, N. Y.
Grand Hotel.....	"	Hotel Margaret.....	"
Grand Union Hotel.....	"	St. George Hotel.....	"
Great Northern Hotel.....	"	Iroquois Hotel.....	Buffalo, N. Y.
Herald Square Hotel.....	"	Lafayette Hotel.....	"
Hoffman House.....	"	Hotel Thornton.....	Butte, Mont
Hotel Astor.....	"	Great Northern Hotel.....	Chicago, Ill.
Hotel Cadillac.....	"	La Salle Hotel.....	"
Hotel Essex.....	"	Blackstone Hotel.....	"
Hotel Grenoble.....	"	Plaza Hotel.....	"
Hotel Lorraine.....	"	Planters Hotel.....	"
Hotel Manhattan.....	"	Sherman House.....	"
Hotel Navarre.....	"	Windsor Clifton Hotel.....	"
Hotel Somerset.....	"	Euclid Hotel.....	Cleveland, O.
Hotel St. Andrew.....	"	Hollenden Hotel.....	"
Hotel Wolcott.....	"	Hartman Hotel.....	Columbus, O.
Hotel York.....	"	Brown Palace Hotel.....	Denver, Colo.
Imperial Hotel.....	"	Hansen Drug Co. Hotel.....	Des Moines, Ia.
Manhattan Hotel.....	"	Spaulding Hotel.....	Duluth, Minn.
Marlborough Hotel.....	"	Reed House.....	Erie, Pa.
Marie Antoinette Hotel.....	"	Exchange Hotel.....	Franklin, Pa.
Martha Washington Hotel.....	"	Palmer House.....	Grand Island, Neb.
Mills Hotel.....	"	Allyn House.....	Hartford, Conn.
New Netherland Hotel.....	"	Midland Hotel.....	Kansas City, Mo.
Park Ave. Hotel.....	"	Laurel-in-the-Pines.....	Lakewood, N.J.
Ritz Carlton Hotel.....	"	Lakewood Hotel.....	"
St. Regis Hotel.....	"	Lincoln Hotel.....	Lincoln, Neb
Vanderbilt Hotel.....	"	Hotel Saulpaugh.....	Mankato, Minn.
Victoria Hotel.....	"	Hotel Pfister.....	Milwaukee, Wis.
Waldorf-Astoria.....	"	Plankinton House.....	"
Waldorf Astoria.....	"	Republican House.....	"
Alabama Hotel.....	Anniston, Ala.	Hotel Nicollet.....	Minneapolis, Minn.
Piedmont Hotel.....	Atlanta, Ga.	Hotel Vendome.....	"
Carrollton.....	Baltimore, Md.	Hotel Raddison.....	"
Hotel Belvidere.....	"	The West Hotel.....	"
American House.....	Boston, Mass.	Florence Hotel.....	Missoula, Mont.
Berkeley Hotel.....	"	Continental Hotel.....	Newark, N.J.
Commonwealth Hotel.....	"	Hotel Grunewald.....	New Orleans, La.
Hotel Essex.....	"	St. George Hotel.....	Nyack, N.Y.
Hotel La Touraine.....	"	Hygeia Hotel.....	Old Point Comfort, Va.
Hotel Lenox.....	"	Millard Hotel.....	Omaha, Neb.
Hotel Vendome.....	"	Hotel Schenley.....	Pittsburg, Pa.
Lexington Hotel.....	"	Newell's Hotel.....	"

VAN KANNEL REVOLVING DOOR COMPANY

Hotels—Continued

Bellevue Stratford Hotel.....	Philadelphia, Pa.	St. Paul Hotel.....	St. Paul, Minn.
Crown Hotel	Providence, R.I.	Riggs House	Washington, D.C.
Osborn House	Rochester, N.Y.	Arlington Hotel	"
Hotel Nelson	Rockford, Ill.	Barton's Hotel	"
Palace Hotel	San Francisco, Cal.	Hotel Raleigh	"
Hotel Jermyn	Scranton, Pa.	Shoreham Hotel	"
Hotel Garretson.....	Sioux City, Ia.	Willard's Hotel	"
Hotel Worthy.....	Springfield, Mass.	West Baden Springs Hotel...	West Baden, Ind.
Buchanan Hotel.....	St. Joseph, Mich.	Hotel Windsor.....	Wheeling, W. Va.
Hotel Barteau	St. Paul, Minn.	McLure House	"
Hotel Ryan	"		

Banks, Trust Companies, Etc.

Am. Exchange Natl. Bank	N. Y. City.	Fargo Natl. Bank	Fargo, N.D.
Bank of Jarmulowsky	"	State Natl. Bank	Ft. Worth, Tex.
Bank of Metropolis	"	G. F. Natl. Bank	Grand Forks, N.D.
J. S. Bache & Co.	"	Mich. Trust Co.	Grand Rapids, Mich.
Colonial Trust Company	"	Fourth Natl. Bank	"
Corn Ex. Bank	"	Kellogg Natl. Bank Bldg.	Green Bay, Wis.
Equitable Trust Co.....	"	Indiana Trust Bldg.	Indianapolis, Ind.
Federal Bank	"	Commercial Trust.....	Jersey City, N.J.
Guarantee Trust Co.	"	Natl. Bank of Commerce.....	Kansas City, Mo.
Hanover Natl. Bank	"	First Natl. Bank	Louisville, Ky.
Knickerbocker Trust Co.	"	Marshall & Ilsley Bank	Milwaukee, Wis.
Liberty Natl. Bank	"	First Natl. Bank	"
Morton Trust Co.	"	Minn. Trust Co.....	Minneapolis, Minn.
Mechanics' & Traders' Bank	"	Bank of Commerce.....	"
Mechanics National Bank.....	"	Thames National Bank.....	Norwich, Conn.
Mutual Bank	"	Natl. Bank.....	Ogdensburg, N. Y.
Natl. Bank of Commerce	"	Industrial Trust Co.....	Providence, R. I.
Seaboard Natl. Bank	"	People's Bank & Trust Co.....	Passaic, N. J.
Union Dime Savings Bank.....	"	Hamilton Trust.....	Paterson, N. J.
Western National Bank	"	United Bank Bldg.....	"
Williamsburgh Trust Co.	"	Perth Amboy Trust Co....	Perth Amboy, N. J.
Anniston Natl. Bank	Anniston, Ala.	Equitable Trust Co.....	Philadelphia, Pa.
Third Natl. Bank.....	Atlanta, Ga.	Farmers Dep. Natl. Bank.....	Pittsburg, Pa.
Continental Trust Co.....	Baltimore, Md.	Fidelity Title and Trust Co....	"
Hambleton Bank	"	Colonial Trust Bldg.....	Reading, Pa.
Natl. Bank of Commerce.....	"	Rochester Savings Bank.....	Rochester, N. Y.
Natl. Howard Bank	"	Title Guar. and Trust Co.....	Scranton, Pa.
Union Trust Co.....	"	Natl. Valley Bank.....	Staunton, Va.
U. S. Fidelity & Guarantee Bldg.	"	Natl. Bank of Commerce.....	St. Louis, Mo.
Adams Trust Co.	Boston, Mass.	Mercantile Trust Co.....	"
Commonwealth Trust Co.....	"	Bank of Minnesota.....	St. Paul, Minn.
Internatl. Trust Co.	"	First Natl. Bank.....	"
Natl. Bank of Redemption	"	Germania Bank.....	"
Old Colony Trust Co.....	"	Merchants Natl. Bank.....	"
Boro Bank	Brooklyn, N.Y.	Natl. German Am. Bank.....	"
Fidelity Trust	Buffalo, N.Y.	Spokane & Eastern Trust Co....	Spokane, Wash.
Buffalo Savings Bank	"	First Natl. Bank.....	Suffield, Conn.
Manfs. & Traders' Bank	"	Third Natl. Bank.....	St. Louis, Mo.
Burlington Savings Bank	Burlington, Vt.	Mechanics Am. Natl. Bank.....	"
Natl. Bank of Catasauqua	Catasauqua, Pa.	Syracuse Savings Bank.....	Syracuse, N. Y.
Union Sav. Bank and Trust Co....	Cincinnati, O.	Onondaga Savings Bank.....	"
Jefferson Natl. Bank	Charlottesville, Va.	Broad Street Natl. Bank.....	Trenton, N. J.
Harris Trust Co.....	Chicago, Ill.	City Natl. Bank.....	Utica, N. Y.
Citizen's Savings & Loan Co.	Cleveland, O.	First Natl. Bank.....	"
Lake Shore Banking and Sav.....	"	Citizens' Bank.....	Wahpeton, N. D.
Market Natl. Bank	"	Columbia National Bank....	Washington, D. C.
People's Sav. and Loan Co.	"	Second National Bank.....	"
Park Natl. Bank	"	Traders Natl. Bank.....	"
Prudential Trust	"	Washington Trust Co.....	Washington, Pa.
Colonial Natl. Bank	"	Five-Cent Sav. Bank.....	Worcester, Mass.
Guardian Trust Co.....	"	Dollar Sav. and Trust Co....	Youngstown, O.
First Natl. Bank	Duluth, Minn.		

Post Offices

Abilene, Texas.	Clinton, Iowa.	Freeport, Ill.	New Brunswick, N. J.
Altoona, Pa.	Coldwater, Mich.	Fremont, Neb.	New London, Conn.
Albany, N. Y.	Concord, N. H.	Hartford, Conn.	New Ulm, Minn.
Annapolis, Md.	Creston, Iowa.	Helena, Mont.	New York City.
Atchison, Kan.	Denver, Colo.	Huntingdon, Pa.	North Adams, Mass.
Auburn, N. Y.	Derry Depot, N. H.	Joliet, Ill.	Oakland, Cal.
Augusta, Me.	Duluth, Minn.	Kansas City, Kan.	Omaha, Neb.
Aurora, Ill.	Elgin, Ill.	La Crosse, Wis.	Oscalooza, Ia.
Baltimore, Md.	Elmira, N. Y.	Lima, Ohio.	Oshkosh, Wis.
Boston, Mass.	Emporia, Kans.	Louisville, Ky.	Pittsburg, Pa.
Buffalo, N. Y.	Erie, Pa.	Manchester, N. H.	Pueblo, Colo.
Butte, Mont.	Fargo, N. D.	Menominee, Mich.	Rock Island, Ill.
Cincinnati, Ohio.	Fergus Falls, Minn.	Minneapolis, Minn.	Salem, Ore.
Cleveland, "	Fitchburg, Mass.	Newport, Vt.	San Francisco, Cal.
Clifton Forge, Va.	Fort Dodge, Iowa.	New Bedford, Mass.	Scranton, Pa.

VAN KANNEL REVOLVING DOOR COMPANY

Post Offices—Continued

Sioux City, Iowa.	Staunton, Va.	Taunton, Mass.	Washington, D. C.
South Bend, Ind.	St. Louis, Mo.	Toledo, Ohio.	Watertown, N. Y.
Springfield, Ill.	St. Albans, Vt.	Troy, N. Y.	Wilmington, Del.
Springfield, Mass.	St. Cloud, Minn.	Utica, N. Y.	Williamsport, Pa.
S. Omaha, Neb.	St. Joseph, Mo.	U.S.C.H., Fall River,	Winona, Minn.
Sleepy Eye, Minn.	St. Paul, Minn.	Mass.	Woburn, Mass.

Public Buildings, Schools, Libraries, Churches, etc.

Court House.....	Albany, Ga.	Lawrence County C. H.....	Newcastle, Pa.
Capitol Bldg.....	Albany, N. Y.	U. S. Naval Barracks.....	Newport, R. I.
City Hall.....	"	Appraisers Stores.....	N. Y. City
State House.....	"	Broadway Tabernacle.....	"
Phillips Academy.....	Andover, Mass.	Fire Headquarters.....	"
Y. M. C. A.....	Brooklyn, N. Y.	Court House.....	Omaha, Neb.
Court House.....	Butte, Mont.	Omaha Public Library.....	"
City Hall.....	Cincinnati, Ohio	Ger. Evan. Luth. St. John Church.....	Passaic, N. J.
City Hall.....	Cleveland, "	City Hall.....	Providence, R. I.
Wayne Co. Bldg.....	Detroit, Mich.	Rhode Island State House...	"
El Paso Co. Court House.....	El Paso, Texas	State Normal School.....	"
U. S. A. Building.....	Fort Snelling, N. D.	Court House.....	Salem, Mass.
Court House.....	Helena, Mont.	Erie Co. C. H.....	Sandusky, O.
Free Public Library.....	Hoboken, N. J.	City Hall.....	St. Paul, Minn.
Mankato Public Library.....	Mankato, Minn.	Public Library.....	"
City Hall.....	Milwaukee, Wis.	State Capitol.....	"
City Hall.....	Minneapolis, Minn.	State House.....	"
Public Library.....	"	U. S. A. Building.....	"
State Capitol.....	Montpelier, Vt.	White House.....	Washington, D. C.
Munhall Pub. School.....	Munhall, Pa.	City Hall.....	Watertown, N. Y.

Stores

Aitken Sons & Co.....	N. Y. City	Ederheimer, Stein & Co.....	Chicago, Ill.
Bloomington Bros.....	"	Carson, Pirie, Scott & Co.....	"
Elliot & Hatch Book Typewriter Co.	"	C. D. Peacock Jewelry Store.....	"
Golden Bros.....	"	Hyman & Co.....	"
H. C. F. Koch & Co.....	"	Rothschild & Co.....	"
Herman Sternbach & Co.....	"	K. Store Spaulding Bldg.....	"
R. H. Macy & Co.....	"	Siegel-Cooper Co.....	"
Franklin Simon Co.....	"	The Fair.....	"
Greenhuts Co.....	"	Chandler & Rudd Store.....	Cleveland, O.
L. M. Blumstein.....	"	The May Co.....	"
Maillard Store.....	"	Meyer & Gleim Store.....	"
Oppenheim & Collins.....	"	Wm. Taylor & Sons' Store.....	"
R. H. Macy & Co.....	"	Feldman Dry Goods Co.....	Galveston, Tex.
Saks & Co.....	"	Giddings Bros. Store.....	Colo. Sps., Col.
Siegel-Cooper Co.....	"	Tiche Goettinger Co.....	Dallas, Tex.
Simpson-Crawford.....	"	Hover Drug Co.....	Denver, Col.
Tiffany & Co.....	"	L. Hudson Store.....	Detroit, Mich.
14th Street Store.....	"	Trash Prescott & Richardson.....	Erie, Pa.
Hochschild, Kohn & Co.....	Baltimore, Md.	Geo. Fox & Co.....	Hartford, Conn.
Hutzler Bros.....	"	Wm. H. Block & Co.....	Indianapolis, Ind.
Hamburger Store.....	"	Dayton Dry Goods Co.....	Minneapolis, Minn.
Hub Department Store.....	"	Donaldson's Dept. Store..	"
O'Neill & Co.....	"	Minn. Dry Goods Co.....	"
Alexander Store.....	Boston, Mass.	John W. Thomas & Co.....	"
A. Stowell & Co.....	"	L. S. Donaldson.....	"
Boston Department Store.....	"	Plymouth Clothing House..	"
D. S. McDonald Co.....	"	The Leader Dep't Store...	"
Chandler Store.....	"	The Powers Dep't Store...	"
Gilchrist & Co.....	"	Hammel Store.....	Mobile, Ala.
Filene Store.....	"	John Murphy Co. Bldg.....	Montreal, Quebec.
Houghton & Dutton.....	"	Bamberger's Store.....	Newark, N. J.
James A. Houston Co.....	"	L. S. Plavt & Co.....	"
Jordan Marsh.....	"	Schipper & Block.....	Peoria, Ill.
L. A. McDonnell Store.....	"	P. A. Bergner.....	"
L. P. Holland & Co.....	"	N. Snellenberg & Co.....	Philadelphia, Pa.
Meyer Jonasson Co.....	"	J. G. Darlington Co.....	"
R. H. Stearn Store.....	"	Strawbridge & Clothier.....	"
R. H. White & Co.....	"	Joseph Horne & Co.....	Pittsburg, Pa.
Saml. Ward Store.....	"	Kauffman Bros.....	"
Shepard, Norwell & Co.....	"	J. Horne & Co.....	"
Shuman & Co.....	"	The Shepard Co.....	Providence, R. I.
Walter M. Lowery Store.....	"	Dives, Pomeroy & Stewart.....	Reading, Pa.
Wm. S. Butler Store.....	"	Scruggs, Vandervoort & Barney Co.,	St. Louis, Mo.
A. D. Matthews & Sons.....	Brooklyn, N.Y.	C. Gotzian & Co.....	St. Paul, Minn.
Abraham & Straus.....	"	Emporium.....	"
Howland Dry Goods Co.....	Bridgeport, Conn.	Field, Schlick & Co.....	"
W. A. Case & Son.....	Buffalo, N. Y.	Golden Rule.....	"
Mandel Bros.....	Chicago, Ill.	Manheimer Bros.....	"
Boston Store.....	"	The Emporium Dep't Store...	"
Montgomery Ward & Co.....	"	E. W. Edwards & Son.....	Syracuse, N. Y.
Marshall Field & Co. (retail house)	"	Hunter, Tuppen Co.....	"
Marshall Field & Co. (wholesale).	"	W. H. Skinner Co.....	Taunton, Mass.
M. L. Rothschild.....	"		

VAN KANNEL REVOLVING DOOR COMPANY

Stores — Continued

S. Kahn & Sons Co.....	Washington, D. C.	Roth Department Store.....	Watertown, N. Y.
Woodward & Lothrop	"	Bush & Bull Store	Williamsport, Pa.
Hecht & Co.	"	L. L. Stearns & Co.	"

Printing and Publishing Establishments

New York Herald.....	N. Y. City	Minneapolis Tribune.....	Minneapolis, Minn.
" Journal, Press Rooms...	"	Printers' Exchange.....	"
" Mailing Rooms	"	Philadelphia Inquirer.....	Philadelphia, Pa.
" World Mailing Rooms..	"	The Pittsburg Leader.....	Pittsburg, Pa.
" Publication Office	"	The Pittsburg Times.....	"
Boston Journal.....	Boston, Mass.	Pittsburg Post.....	"
" Globe	"	Newspaper Building.....	St. Paul, Minn.
Chicago Daily News Co.....	Chicago, Ill.	Pioneer Press.....	"
Chicago Tribune.....	"	St. Paul Dispatch.....	"
Cincinnati Times, Star.....	Cincinnati, O.	St. Paul Globe.....	"
Lewiston Journal.....	Lewiston, Me.	West Pub. House.....	"
Louisville Times.....	Louisville, Ky.	Syracuse Herald.....	Syracuse, N. Y.
Minneapolis Journal.....	Minneapolis, Minn.	Evening Star.....	Washington, D. C.

Restaurants, Cafes and Clubs

Bristol Restaurant	N. Y. City	Statler's Restaurant, Ellicott Sq.,	Buffalo, N. Y.
Cafe Martin.....	"	Boston Oyster House.....	Chicago, Ill.
Childs Restaurants, in 6 Buildings..	"	Chicago Athletic Assn.	"
Fifth Ave. Bldg. Restaurant.....	"	Edelweiss Restaurant.....	"
Grand Union, Cafe entrance.....	"	Hofbrau Restaurant.....	"
Haan's Restaurant.....	"	Saratoga Hotel and Restaurant Co.	"
Louis Sherry	"	University Club.....	"
Rector Restaurant.....	"	Vogelsang's Restaurant.....	"
Reisenweber's Restaurant.....	"	Sam De Graw's Cafe	Cleveland, O.
Shanley's Restaurant, in 3 Buildings	"	Regan & Co., Restaurant..	Minneapolis, Minn.
Cook Restaurant.....	Boston, Mass.	Goettman Bros. Cafe.....	Pittsburg, Pa.
Cottrell Restaurant.....	"	St. Louis Catering Co.....	St. Louis, Mo.
Green Dragon Restaurant.....	"	Newman's Restaurant.....	St. Paul, Minn.
J. A. Whitcomb Restaurant.....	"	Shoreham Cafe.....	Washington, D. C.
R. Marston & Co., Restaurant....	"	Warwick Bar Room.....	"
Selg Palm Garden.....	"		
Childs Restaurant.....	Buffalo, N. Y.		

Miscellaneous

Algonquin Apartment House.....	N. Y. City	Union League Club.....	Chicago, Ill.
Æolian Hall.....	"	Crow & Whitmarsh.....	Cleveland, O.
Freundschaft Verein.....	"	Turner Hall.....	Davenport, Ia.
German Liederkranz.....	"	Liberty Sanitarium.....	Liberty, N. Y.
Hamburg Am. Steamship Co.....	"	Masonic Temple.....	Lima, Ohio
Harmonie Club.....	"	Milwaukee Gas Co.....	Milwaukee, Wis.
Havana Tobacco Co.....	"	Chamber of Commerce....	Minneapolis, Minn.
Kinsella Apartments	"	C. S. Bracket.....	"
Raphael Apartments.....	"	Union Stock Yards.....	Omaha, Neb.
Mid-Day Club.....	"	Duquesne Club.....	Pittsburg, Pa.
Lion House, Zoological Garden.....	"	St. John's R. C. Church.....	"
Monkey House,	"	Atlantic Refining Co..	Point Breeze, Phila., Pa.
Antelope House,	"	Chamber of Commerce.....	Rochester, N. Y.
Bird House,	"	Mechanics' Institute.....	"
Anaconda Copper Mining Co.	Anaconda, Mont.	Grand Opera House.....	San Francisco, Cal.
New Algonquin Club.....	Boston, Mass.	Laclede Gas Light Co.....	St. Louis, Mo.
Brooklyn Inst. Arts & Sciences,	Brooklyn, N. Y.	Geo. Benz & Son.....	St. Paul, Minn.
Polhemus Clinic.....	"	North. Pac. Ry. Station.....	"
Chicago Telephone Co.....	Chicago, Ill.	Tuxedo Club.....	Tuxedo, N. Y.
Illinois Central Railroad.....	"	Highlands Apt.....	Washington, D. C.
People's Gas Light and Coke Co.,	"	A. L. Rowe.....	Watertown, S. D.

The Revolving Door Abroad

The rapidity with which the system is being adopted in England and other Continental countries, is strong proof of its great advantages over all previous forms of door systems. The foreign business is now operated by the **International Revolving Door Co.**, which owns and controls the original and improvement patents in ten countries besides Canada, where the business is constantly increasing and the leading architects are specifying revolving doors, and designing them to harmonize with the architecture in their respective countries.

Revolving Doors in Foreign Countries Manufactured and Installed Under Our Patents

Great Britain

Berkeley Hotel.....	London	Saint Enoch's Hotel.....	Glasgow
Brown's Hotel.....	"	Windsor Hotel.....	"
Carlton Hotel.....	"	Municipal Buildings.....	"
De Keyser's Hotel.....	"	Hotel Majestic.....	Harrogate
Holborn Viaduct Hotel.....	"	Prince of Wales Hotel.....	"
Holborn Viaduct Restaurant.....	"	Alexander Hotel.....	"
Hotel Langham.....	"	Wellington Hotel.....	"
Madame Tussaud's Museum.....	"	Queen Hotel.....	"
Midland Grand Hotel.....	"	Harlow Manor Hydropathic.....	"
Standard Bank of South Africa.....	"	Royal Station Hotel.....	Hull
The Prince's Restaurant.....	"	Station Inn.....	Keighley
Midland Grand Hotel Kitchens.....	"	Public Library.....	Kingston-on-Thames
Hotel Cecil.....	"	Queen's Hotel.....	Leeds
Royal Palace Hotel.....	"	Adelphi Hotel.....	Liverpool
St. Ermins Hotel.....	"	Cotton Exchange.....	"
Blydensteins' Bank.....	"	White Star Offices.....	"
Daily News Office.....	"	Llandudno Hydropathic.....	Llandudno
Middlesex Hospital.....	"	Empire Hotel.....	Lowestoft
Passmore Edwards Library.....	"	Corn Exchange.....	Manchester
Middlesex Hotel.....	Aldershot	Evening News.....	"
South Western Hotel.....	"	Total Broadhurst Lee & Co.....	"
Glasgow Savings Bank.....	Anderson Branch	New Midland Railway Hotel.....	"
Empire Hotel.....	Bath	Barclay & Co., Bank.....	Newcastle
Midland Hotel.....	Birmingham	Sun Fire Ins. Office.....	"
Old Bull Hotel.....	Blackburn	Guardian Offices.....	Nottingham
Glasgow Savings Bank.....	Bridgeton Branch	Players Offices.....	"
Hotel Metropole.....	Brighton	Midland Railway Station.....	"
Buxton Hydropathic.....	Buxton	London Joint Stock Bank.....	Paddington
Winter Gardens.....	Cheltenham	General Accident Association Co.....	Perth
Lloyds Bank.....	"	Lloyd's Bank.....	Port Talbot
Beacon Hotel.....	Crowborough	Felix Hotel.....	Rhyl
Smith & Co.'s Bank.....	Derby	Thos. Robinson Sons Works.....	Rochdale
Dublin Bread Co.....	Dublin	United Gas Light Co.....	Sheffield
Henry Street Warehouse.....	"	Victoria Hotel.....	Southport
Grand Hotel.....	Eastbourne	Queens Hotel.....	Southsea
Carlton Hotel.....	Edinburgh	Queens Hotel (Kitchen).....	"
Public Health Institute.....	"	Kynochs Offices.....	Witton
N. B. Railway Station Hotel.....	"		
Caledonian Station Hotel.....	"		

Canada

Canada Life Ins. Co.....	Hamilton	Ottawa Bank.....	Montreal
Post Office.....	London	Standard Assurance Co.....	"
Balmoral Hotel.....	Montreal	Blackburn Bldg.....	Ottawa
Bank of Montreal.....	"	Bank of Montreal.....	St. John
Board of Trade.....	"	Canada Life Ins. Co.....	Toronto
Burnetts Bldg.....	"	City Dairy.....	"
Canada Bank of Commerce.....	"	Confederation Life Ins. Bldg.....	"
Canada Life Ins. Co.....	"	Imperial Bank.....	"
City Hall.....	"	London and Lancashire Bldg.....	"
Corastine Bldg.....	"	Rossin House.....	"
Grand Trunk Bldg.....	"	Standard Insurance Co.....	"
Guardian Insurance Bldg.....	"	Standard Bank.....	"
Imperial Life Ins. Co.....	"	Temple Building.....	"
London & Lancashire Bldg.....	"	The King Edward Hotel.....	"
Montreal St. Ry. Bldg.....	"	Willar's Bldg.....	Welland
		Hotel Manitoba.....	Winnipeg

Germany

Berliner Bank.....	Berlin	Kaiser Hotel.....	Berlin
Bier Restaurant.....	"	Kaiser Keller.....	"
Cafe Kaiserhof.....	"	L. Heinicke Restaurant.....	"
Carl Soening Company.....	"	Reichsbank.....	"
Central Hotel.....	"	Restaurant Leipzigerhof.....	"
Commerce and Discount Bank.....	"	Restaurant Tucherbraeu.....	"
Deutsche Bank.....	"	Deutsche Bank.....	Bremen
Equitable Palace Billiard Academy.....	"	Automaten Restaurant.....	Breslau
Government Architects and Engineers Club.....	"	Cafe Residenz.....	"
Grand Cafe Imperial.....	"	Residenz Hotel.....	"
Hotel Bristol.....	"	Baden Credit-Austalt.....	Brunswick
Hotel Continental.....	"	Cafe Austria.....	Chemnitz
Hotel Kaiserhof.....	"	Cafe Bauer.....	"
		Cafe Central Hotel.....	"

VAN KANNEL REVOLVING DOOR COMPANY

Germany—Continued

Cafe Friedrichshof.....	Chemnitz	Hamburg-American Line.....	Hamburg
Cafe Westminster.....	"	Hotel Hamberghof.....	"
Hotel Stadt Gotha.....	"	Hotel Continental.....	Kiel
Kaiser Kaffee.....	"	Cafe Kaiserkrone.....	Koenigsberg
Restaurant Stadt Gotha.....	"	Automaten Restaurant.....	Leipzig
Dom Hotel.....	Cologne	Rheinisch Credit Bank.....	Mannheim
Hotel Hausa Haus.....	Duesseldorf	Hotel of the Four Seasons.....	Munich
Bergisch-Maerkische Bank.....	Elberfeld		

France

Bresserie Universelle.....	Paris	Restaurant Cafe de Paris.....	Paris
Brasserie du Globe.....	"	Restaurant Charles Dronant.....	"
Bouillon Dubont.....	"	Restaurant Julien.....	"
Bouillon Michel.....	"	Restaurant Konss.....	"
Bouillon Saunier.....	"	Restaurant Lucas.....	"
Cafe de la Paix.....	"	Restaurant Maxim's.....	"
Cafe D'Orsay.....	"	Restaurant Saulnier.....	"
Elysee Palace Hotel.....	"	Restaurant Spiess.....	"
Gallopins Stock Exchange Bar.....	"	Rumplmayer's Tea Rooms.....	"
G. Gallopin, Cafe.....	"	Taverne d'Negre.....	"
Grand Cafe.....	"	Taverne Pschorr.....	"
Grand Club, Aix-les-Bains.....	"	Taverne Royale Pousset.....	"
Hotel D'Iena.....	"	Tavrone Pousset.....	"
Hotel Regina.....	"	Tespes' Barber Shop.....	"
Hotel Ritz.....	"	Treasury Department.....	"
Maxims' Restaurant.....	"	Volney Club.....	"
Moulin Rouge.....	"	Washington Palace Dancing Academy...	"
N. Y. Life Insurance Co.....	"	Perret et Fils.....	Bayonne
Paris, Lyons and Mediterranean R. R.,		Nouveau Casino.....	Calais
Paris, Station.....	"	New Casino.....	Calais-Plage
Paris-Orleans R. R. d'Orsay Station.....	"	Cafe du Baleau.....	Cherbourg
Pavillion d'Armenonville.....	"	Hotel Moderne.....	Grenoble
Restaurant Albert Druant.....	"	Excelsior Billiard Parlor.....	Havre
Restaurant Au Petit Riche.....	"	Grand Hotel.....	Lille
Restaurant-Cafe Americain.....	"	Cafe du Palais.....	Rheims

Austria

Cafe D'I Europe.....	Vienna	Hotel Imperial.....	Vienna
Cafe Dogenhof.....	"	Maxim's at Vienna.....	"
Cafe Monahili.....	"	Restaurant Hoepfner.....	"
Grand Hotel.....	"		

Miscellaneous Foreign List

Hotel Continental.....	Brussels, Belgium	Hotel de Londres Jastschonk...	Odessa, Russia
Hotel Metropole.....	"	Restaurant Berte.....	St. Petersburg,
Banque de Verviers.....	Verviers,	Banco Guipuzcoano.....	St. Sebastian, Spain
Hotel d'Augleterre.....	Copenhagen, Denmark	Actiebolaget Noediska,	
E. Vries.....	Amsterdam, Holland	Kompaniet.....	Stockholm, Sweden
Holland Am. S. S. Co.....	Rotterdam,	Grand Magosins Bonnard Bros.	
Grand Hotel Hungaria.....	Budapest, Hungaria		Lausanne, Switzerland
Grand Establishment Kass Szegedin,		Kursall.....	Montreux,
Cafe Steinbruch.....	Bucharest, Roumania	Pschorr Brewery.....	Munich,
Cafe.....	Lodz, Russia	Tunisia Palace Hotel.....	Tunis, Africa
Hotel Bristol.....	Warsaw,	Adelaide S. S. Co.....	Adelaide, Australia



COLLAPSIBLE TYPE REVOLVING CHURCH DOOR

(For Main Entrances)

This type is especially intended for churches and similar places where large audiences congregate. While retaining all the features of the Standard door to exclude the cold, wind, dust and noise, it is essentially "**Panic Proof**," giving full and free exit in case of emergency.

It is specially arranged to be opened by an audience rushing outward, **regardless of care or reason**, neither of which can be depended on in a panic-stricken crowd.

In some cases it is arranged to be **folded and moved aside** (as during funeral services) to permit a casket to be readily carried through the door-way.



Figure 37

STYLE J

Van Kannel Revolving Door makes it possible to do away with the extensive lobbies and vestibules usually found in most types of churches, consequently increasing the seating capacity, with the same amount of area. Revolving doors exclude draughts, dust and noise, and render all pews comfortable

DESCRIPTION

The walls and ceilings are of the usual construction, except that they are of ecclesiastical design, and made to harmonize with the wood work of the entrance the door is to occupy.

The four revolving wings are so arranged and held in their extended position, that on the application of a force but slightly beyond the normal, the four wings all fold flat on each other, and in an **outward direction**. This action is entirely automatic, requiring no one to manipulate any part of the structure. (See Fig. 39.)

In some cases the walls are also divided up in sections, and hinged, in order to provide an increased opening, as shown in Fig. 40 (known as Style F). These hinged sections are also self-opening and are held in their normal position by self-releasing spring bolts.

A door, therefore, having style F walls, and style C fixtures, may be placed in position as shown, giving the fullest opening to the structure. (See Fig. 40.)



Figure 38



Figure 39



Figure 40



Figure 41

In writing for information, state the number of door-ways in the building, and give a sketch of the main building and entrances. (See page 45.)

AIR-LOCK REVOLVING DOOR

(For Interior Doorways)



Figure 42

STYLE CE

This elegant design is intended only for the highest class of buildings, for interior use, and for this reason is constructed differently from the regular Revolving Storm Door. It is to prevent the air currents passing from one room or apartment to another, an Air-Lock, but often it is of equal importance to exclude sound as well, a duty which this door fully performs.

The Postal Telegraph Co., New York, have a revolving door on their 12th floor, leading into the operating room to exclude the noise of the telegraph instruments.

Thirty-one Air-Lock Revolving Doors are installed in the Metropolitan Life Insurance Co.'s new building, Madison and Fourth Avenues and 23rd and 24th streets, all of which are placed above the ground floor, to exclude draughts and sound. Being made fireproof, they act as efficient fire doors.

The Prudential Life Insurance Co. of Newark, N. J., have about 36 air-locked doors placed in the entrances of toilets.

The United States Rubber Co., 11 Murray Street, New York, have a revolving door placed at their entrance between the hallway and their offices to exclude draught and the noise of the elevator doors.

When modified according to the special uses it is intended for, the Air-Lock Revolving Door is of great utility in various interior doorways.

